THE MEVING FOURNAL The Mining Journal COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES

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LONDON, SATURDAY, MAY 25, 1850.

PRICE 6D.

MINE AND MATERIALS FOR SALE.—TO BE SOLD,
BY PUBLIC AUCTION, on Tuesday, the 28th inst., at Twelve o'clock in the
forencon, unless previously disposed of by private contract (of which due notice will be
given), all that valuable MINE OF BOSCUSDLE, near ST. AUSTELL, CORNWALL;
and also MINETY-EIGHT (128ths) PARTS of the WHEAL TRISTRAM SETT, adjoining to the Boscundle aforeasid on the north and cast.

The Boscundle Mine is now in full operations, as a part of the Charlestown United
Mines, and yields regular monthly returns of tin, with occasional bunches of rich grey
copper ore—The setts of both mines are held under leases from Colonel Carlyon.

The MATERIALS on the BOSCUNDLE MINE consist of a STEAM-ENGINE, of 32
inches cylinder, 9 feet stroke in the cylinder, and 7 feet in the shaft, with two boliers, of
about 10 tons each; an excellent WATER-WHEEL, of 40 feet diameter, and 7 ft. breast,
together with the PITWORK, of various sizes, in three engine-shafts; a DRAWING
MACHINE WHEEL, 22 feet diameter, and 7 feet preast, with the gear and other work
connected therewith, together with all the other MATERIALS and the BUILDINGS,
&c., upon the said mine.

nd on the following day, Wednesday, the 29th inst., at Twelve o'clock in the forenoon undermentioned SPARE MATERIALS, the property of the CHARLESTOWN MINE tenturers, lying on the Bosenadle Common, or Buckler's Mine, will be OFFEREL SALE, BY PUBLIC AUCTION—viz.:

Adventurers, lying on the Bosenadle Common, or Buckler's Mine, will be OFFERED FOR SALE, BY PUBLIC AUCTION—viz.:

STEAM-ENGINES, &c.—I steam pumping engine, 56-inch cylinder (single), 9-feet stroke in the cylinder, and 8-feet in the shaft, with about 10 tons of boiler; 1 steam-ongine (drawing machine), 26-inch cylinder, 8-feet stroke in the cylinder, with 7 tons of boiler; cear, eage, &c., complete; 1 other ditto ditto, 22-inch diameter, 4-feet stroke in the cylinder, with boiler, gear, &c., complete; 1 water-wheel, 28-feet diameter and 7-feet breast, with cast-iron axie, cranks, &c., complete; 1 water-wheel, 28-feet diameter and 7-feet breast.

PITWORK.—9 9-feet 12-inch, 15 9-feet 11-inch pumps; 1 2-feet 6-inch by 12-inch, 1 4-feet 6-inch by 10-inch, and 1 6-feet 19-inch and 10-inch, 1 9-feet 10-inch, 1 9-feet 10-inch, 1 9-feet 11-inch, and 1 9-feet 7-inch working-places; 1 6-feet 14-inch, 1 4-feet 11-inch, and 1 9-feet 7-inch, and 1 9-feet 7-inch, and 16-feet 7-inch, and 16-feet 14-inch, and 18-feet 7-inch, a

EXTENSIVE AND UNRESERVED SALE OF MACHINERY AND RAILWAY PLANT, AT BERWICK-ON-TWEED.

R. EMBLETON will SELL, BY PUBLIC AUCTION, without reserve, on Monday, the 3d day of June next, and the following days to commence each day at Eleven A.M., and finish at Six P.M.), in the Yard adjoints New Bridge, the whole STOCK of MACHINERY AND RAILWAY PLANT,

MACHINERY AND RAILWAY PLANT,
which has been used in the erection of the Tweed Viaduct and adjoising contracts, consisting of—4 LOCOMOTIVE ENGINES, with tenders.
2 50-horse power HIGH-PRESSURE BEAM ENGINES.
1 6-horse power ditto PORTABLE ENGINE.
1 12-horse power ditto, with sawing machinery.
1 13-horse power ditto, with sawing machinery.
Also, 1 of Nasmyth's PATENT PILE-DRIVING MACHINES, all of which are in exceilent working order, and in many cases as good as new.
There will also be sold 2 sens of QUADRANT PUMPS, and 1 set of powerful CHAIN
PUMPS, capable of lifting 30 feet.
1 Brass FORCING PUMP: a large number of travelling cranes, jib cranes, crane
chains, whiches, setting poles.
3 Ram frames, with hammors for driving piles.
4 Ram frames, with hammors for driving piles.
5 Ram frames, with hammors for driving piles.
6 There will also be sold a large quantity of HORSE GEAR, and about 300 tons of RAILWAY BARS, 35 and 45 he-per yard.
Catalogues, with description of engines, may be seen at Mr. Carstair's office, Berwick;

Catalogues, with description of engines, may be seen at Mr. Carstair's office, Berwick or in the yard, on the day of sale.—Berwick, May 14, 1850.

MR. MARSH'S PERIODICAL SALES (established in 1843)
of ABSOLUTE and CONTINGENT REVERSIONS to MONEY in the FUNDS,
and all descriptions of Reversionary Interests, Advowsons, Next Presentations, Rent
Charges in lieu of Tithes, and Ecclesiastical Property, Life Interests, Policies of Assurance, Shares, Debentures, Post Ohit Bonds, &c., will take place on the first Thursday
in each month throughout the year 1850, as under:—
Thursday, June 6.

Thursday, June 6 Thursday, July 4 Thursday, August 1 Thursday, September

Notices of sales intended to be effected by the above means should be forwarded to Mr. farsh at least a fortnight antecedent to each of the above dates.

2, Charlotte-row, Mansion-house, December, 1849.

PERIODICAL SALE.—FIFTY SHARES IN THE TAMAR SILVER-LEAD MINES BEERALSTONE, DEVON, established upwards of eight years.

BEERALSTONE, DEVON, established upwards of eight years.

MR. MARSH has received instructions to include in his next
MONTHLY SALE of Reversions, Policies, Shares, &c., appointed to take place
at the Mart, on Thursday, June 6th, at Twelve c'clock, in five lots, FIFTY SHARRS
(£3 called and paid) in the TAMAE SILVER-LEAD MINES, Beeralston, DEVON,
established apwards of eight years, and in a most flourishing condition, having paid a
dividend during the last half year at the rate of 20 per cent.
Particulars may be obtained at the Mart: of S. R. Vaughan, Esq., solicitor, 4, Furnival's-inn, Holborn; and at Mr. Marsh's Reversionary and Estate Offices, 2, Charlotterow, Mansion-house.

VALUABLE FREEHOLD ESTATE,—MINERAL PROPERTY, with the COLLIERY and FIRE-BRICK WORKS, and all the VALUABLE PLANT, &c.

and FIRE-BRICK WORKS, and all the VALUABLE PLANT, &c.

MESSRS. FAREBROTHER, CLARK, & LYE will SELL, and Garraway's, on Thursday, June 27, at Twelve, by order of the Devisees in Trust, of the late J. F. Hanson, Esq., a very valuable MINERAL PROPERTY, situate in the Parishes of HEULLIS and LLANTARNAM, five miles from the town and port of Newport, with communication by the Monmouth Canal, on which there is a wharf attached to the works.

The estate comprises 376 acres, and contains COAL OF EXCELLENT QUALITY, and ironstone running under the whole extent with limestone, building and paving stone, excellent manager's house, and i? cottages; also suitable farm buildings. The minerals have been partially opened and proved, and the brick works are of sufficient extent to manufacture 200,000 fire-bricks per month, besides draining tiles. All the coal and iron measures known in this part of South Wales between the Pennant rock and the carboniferons limestone crop out on the estate.

The VALVABLE MACHINERY now used on the works will be included in the purchase. The surface rental, including cottages, is about £200 per annum. The estate is freehold, except 28 acres copyhold at a flue certain, and 87 acres leashold for 99 years, at a rent of £13 per annum. A railway of two miles in extent, worked by self-acting inclines, has been made through the centre of the property, by which the produce of it is conveyed to the canal.

Full described exceptive particulars may be had one month prior to the sale, at the works: the

lines, has been made infough the centre of the prior to the sale, at the works; the noweyed to the canal.

Full descriptive particulars may be had one month prior to the sale, at the works; the Aradiff Arma, Cardiff, King, Cardiff, King, Cardiff, King, Cardiff, King, See and Cardiff, Se

FOR SALE, at TING-TANG, GWENNAP, CORNWALL, a HUNDRED-INCH CYLINDER and CASE, 11 feet long, with piston, piston-rod, and cylinder bottom to match. This cylinder is admirably adapted for a direct-acting engine, having a strong fiange, expressly for being bull in a loading (over an engine-shaft), if required, or coal pit. The hold-down holts, and other articles, will be sold with or without the cylinder. This cylinder has only been worked within the space of two years, and will be sold for the very low price of £7 per ton, to include the case, piston, and cylinder bottom. The piston-rod will be sold with or without the other parts for an unusual opportunity.

To examine the above, please apply to Mr. E. Hales, on the mine; and for further particulars to Capt. Thomas Richards, Marasion.—April 22, 1850.

FOR SALE, BY TENDER—LOSTWITHIEL CONSOLS

MINE.—At a General Meeting of the shareholders in the above Mine, held on the
2d inst., it was resolved, that in consequence of the mability of several shareholders to
continue their interest in the mine, that the MINE and MATERIALS be advertised FOR
SALE, BY TENDER, within three weeks from this time.

Tenders for the same are now solicited. The mine has been worked by the present
company nearly four years, and was lately inspected by Mr. A. Murray, jun., who reported to the adventurers, that to fully develope the mine, by which important results
might be obtained, the levels on the east and west lode should be extended fally 30 to 40
fathoms, at a cost of £7 per fathom (average), and occupying 6 to 8 months. The engine is a 36-inch by 10-feet stroke, and a small additional outlay for pumps would put the
mine in an efficient state of working.

Tenders to be addressed to
Dated May 8, 1850.

No. 4, King-street, Cheupside, London.

JAMES CROFTS, Secretary, No. 4, King-street, Cheapside, London.

MR. JAMES CROFTS, of No. 4, KING-STREET, CHEAPSIDE, takes the liberty of soliciting the attention of CAPITALISTS (and more particularly so in consequence of the depressed and, in his opinion, still unsafe condition of rallway property) to the MINING INTERESTS of GREAT BRITAIN, as offering, at this time, the SAFEST MEDIUM OF INVESTMENT of any advantures of an acknowledged speculative character, and TENDERS his SERVICES generally for the PURCHASE or SALE of MINING SHARES.

PURCHASE or SALE of MINING SHARES.

Mr. CROFTS has at present FOR SALE SHARES in the following Adventures: ROCHE ROCK (Tip.) in 6000 shares. COPINE AND CONSOLS (Copper), in 6000 shares.
BEDFORD UNITED (Copper), in 4000 shares.
BEDFORD UNITED (Copper), in 4000 shares.
SOUTH TAMAR CONSOLS (Silver-lead), in 9000 shares.
EAST TAMAR CONSOLS (Silver-lead), in 9000 shares.
BEDDCAL, or SOUTH WALES (Lead and Copper), in 2000 shares.
BODCAL, or SOUTH WALES (Lead and Copper), in 2000 shares.
UNITED ALLEE (Silver-Lead), in 1000 shares-Cardiganshire.
METROFOLITAN STONE COMPANY, in 100 shares.
WHEAL EMILY (Silver-Lead), in 100 shares.
WHEAL TRESCOLL (Tin), in 1100 shares.
TREGEAR CONSOLS (Silver-Lead), in 5000 shares.
CWM ERFIN (Lead), in 1000 shares-South Wales.

M ERFIN (Lead), in 1000 shares—South Wales.

addition to the above, Mr. CROFTS has also generally FOR SALE SHARES in tES managed in his OFFICE, where the Cost-books, Li-ts of Shareholders, and leal Balance-sheets and Reports may be inspected—viz.:

LAMHEROOE WHEAL MARIA (Copper) 1 2048 shares.

WHEAL BENNY (Copper) 256 ,
LOSTWITHIEL CONSOLS (Copper) 253 ,
COMBLAWN (Silver-Lead) 500 ,
WHEAL VINCENT (Tin) 1000 ,
WHEAL VINCENT (Tin) 1000 ,
WHEAL SARAH (Silver, Gossan, and Lead) 1056 ,

63- Mr. CROFTS is NOT A DEALER in SHARES for his own account, but only for pr

TO BE OFFERED FOR PUBLIC SALE, on Monday, the 10th day of June, 1850, at the Raven Inn, in ST. HELENS, in the county of LANCASTER, at Two for Three o'clock in the afternoon, in one or more lots, as may be then and there agreed upon, and subject to such conditions of sale as may be then and there produced, THRTY-TWO UNDIVIDED (64ths) PARTS, or SHARES, of and in the SANKEY BROOK COLLIERY, situate in PART, near St. Helens aforesaid, and of and in all and every the Leases, Agreements for Leases, Conveyances, and other Deeds, under which the said Collery is now being worked, and which comprise the following seams of coal—namely,

and in all and every the Leases, agreement of the property of the said Collery is now being worked, and which comprise the following seams of coal—namely,

THE HIGHER DELF.

THE MAIN DELF.

THE SR JOHN MINE.

THE SR JOHN MINE.

THE SR JOHN MINE.

THE SR JOHN MINE.

THE ADDITION OF THE LITTLE DELF.

THE SIR JOHN MINE.

The above-mentioued mines are all well opened and in fall operation and good working order, and producing upwards of 100,000 tons of coal annually.

They are held under various losses, and agreements for leases from various parties, for various terms, and at very reasonable rents.

It is estimated that there are upwards of 1800 large or Cheshire acres of coal, of 1 ft. thick, ungotten in the mines, and baid dry by the present winnings.

The machinery and plant is all very efficient and in good working order, and will be sold with the mines.

The collieries are situated in the township of Parr, on a branch of the St. Helens Rail-way.

The collieries are situated in the township of Parr, on a branch of the St. Helens Rail-way.

St. Helens Rail-way.

The colliery has been established nearly 30 years, and enjoys an old and valuable connection, not only in the immediate vicinity, but also in Liverpool; and as the coals are known to be of the best quality, as "opportunity is afforded to capitalists and others desirous of embarking in the coal trade, which soldom presents itself.

Any further information respecting the colliery may be obtoined on a application to Mr.

na ouners desirous of embarking in the coal trade, which seldom presents itself.

Any further information respecting the colliery may be obtained on application to Mr. ohn Mercer, land and mine surveyor, Belle Viae, Cowley-hill, near St. Helena, or Mr. .

Williams (at the office of the colliery), who will show plans of the colliery workings, r to Messra. Ansdell and Haddock, solicitors, St. Helena.

St. Helena, May 18, 1850.

St. Helens, May 18, 1850.

TO CAPITALISTS,—More particularly those concerned in MINING OPERATIONS.—WILL BE SOLD, if a suitable offer is made, in the county of CORK, a most desirable PROPERTY containing SIX HUNDRED and FIFTY-EIGHT ACRES, statute measure, let to one solvent tenant, at the yearly rent of £420 per annum, for the term of 99 years, 20 of which have expired.

The property is situated within 4 miles of the post town of CLONAHILTY, and the lands are of the first quality; the rent is punctually paid by the lessee, who has an interest of fully £300 a-year out of the lands, and the poor-rates have never exceeded 2a, 3d, in the £1.—To a Capitalist or Mising Company this would be a most valuable investment, as there is no doubt of there being bots COPER and LEAD MINES on it. The Royalty would be sold with the property—the great advantage of having the Royalty to such parties is too apparent to require commant.

Should a liberal offer be made to the propeter, Sir John Barry, Bart., Sandy-Mount, Dublin, he will sell the property under the "Encumbered Eatste Act," which will expedite the sale, and ensure the title; but ample accurity must be given as to the honourable intentions of the parties offering, as there is no necessity for the sale of the property, and it will not be sold without the full value of it is given.—Further particulas will be given on application to Sir John Barry, Bart., Sandy Mount, Dublin.

PO BE SOLD, BY PRIVATE CONTRACT, the ENGINES, MACHINERY, &c., which have been used in the erection of the Britannia-bridge, consisting of ONE 40-horse HIGH-PRESSUEE ENGINE, with 18-inch cylinder, and -feet 6-inch stroke, with boller complete, drivan and hoisting gear; ONE 20-horse HIGH-PRESSURE ENGINE, with 14-inch cylinder, and 2-ft. stroke, with portable boller complete, drum and hoisting gear; traveling crams, landing crams, setting machines, single and double purchase crabs, blocks, chain and tackle of every description, and of first-rate quality.—Application to be made to Messrs.B. J. Nowell and Co., at the works, Britannia-bridge, Bangor, North Wales.

EAST OF SCOTLAND MALLEABLE IRON COMPANY

—The Directors have been authorised to RECEIVE OFFERS for the PURCHASE
or LEASE, of the MALLEABLE IRON VORKS at DUNFERMLINE—comprising a
FYEAM—ENGINE, of 80-horse power, working the machinery, constaints of FORCE and
PUDDLE BAR TRAINS, of 16 inches dismeter, HAMMER and PATENT SHING.
LING MACHINE; also a 16-inch MERCHINT BAR OF RAIL MILL, a 12-inch MILL,
for ordinary sized merchant bars, and an 3-inch GUIDE MILL, 13 PUDDLING FURNACES, and 6 MILL FURNACES—the wield capable of producing 120 tons of bariron weekly.

on weekly. A REFINERY STEAM-ENGINE, of 45 horse power, with blowing apparatus, com

A REFINERT SIZAM-EXCHER, of a states power, with blowing apparatus, coincider, and two fries erected. A complete SET of WORKSHOPS, consuming a 20-horse power STEAM-ENGINE, riving a powerful roll-turning lathe, and dowing apparatus for smiths' fires. A PUMPING and CLAY MILL SYEAJ-ENGINE, of 16-horse power, used for the nanufacture of fire-brick, and pumping water for supply of engines. Also, in course of erection, a SYEAM-ENGINE, of 80-horse power, intended to drive he mills apart from the forges, having strong east-iron framing laid down, and machinery uitable on the premises, which could be bought into active operation in a short period Together with the necessary TOOLS, OOSE MACHINERY and STOCKS, of different kinds.

Offers will also be received for the PURCHASE of the ESTATE of TRANSY, consist-

recent kinds.

Offers will also be received for the PURCHASE of the ESTATE of TRANSY, consisting of about 107 imperial acres, with channi MANSION-HOUSE and PLEASURE GROUNDS, situated about half a mile to the east of the town of Dunfermline.

Applications may be made to Mr. James Inglis, Chairman of the Company; or to Company, and Company or to Dunfermline, March 15, 1859.

WARLEGGAN CONSOLS TIN AND COPPER MINES.
(Situated on the CARADON RINGE, in the parish of WARLEGGAN, in the COUNTY OF CORNWALL).

CONDUCTED ON THE COST-BOOK SYSTEM.

Divided into 500 shares of £l each.

Ten shillings to be paid down, and the remainder, if required, in sums not 2s. 6d. per share, and at integals of not less than three months.

The operations on the mines are now being proceeded with, under the most favourable prospects.— (See reports from the mines.—The share list will be closed in a few days. Applications for the remaining shares hay be made to the secretary, W. L. Ternan the offices, 28, Threadneedle-street, Lodon, where reports and a plan of the mine ty be seen, and further particulars obtlined.

MENDIP HILLS MINES COMPANY.—At the Annual General Meeting of Shareholder in this Company, held at the offices, Salvador General Meeting of Shareholders in this Company, held at the offices, Sai House, London, G. H. BARWELL, Esq., in the chair. The following resolutions were passed unanimously:— Resolved,—That the Reports and Accounts now read be received, adopted, and en in the Company's Cost and Transfer Bock.

Resolved,—That the best thanks of the meeting be given to the Chairman, for his almost constant and personal attention to he works during the last year, and for the realiness with which he has entered into explanations to-day on patters connected with the indertaking.

WANTED, in a MANUFACTURING BUSINESS and IRON TRADE, A PARTNER, who can command from £9000 to £8000, and who may be actively engaged or otherwise. The business is well established, and in full operation, yielding good profits, and capable of considerable improvements.—Communications, addressed to "A. B.," 25, Basingiall-street, London, will have prompt attention. N.B.—None but principals will be treated with.

WANTED,—A COPPER ORE SMELTER and REFINER,
TO GO ABROAD, for a short or long period. He must be perfectly acquainted
rith the most approved method of smelting copper ores, with the least possible consump-

VV PRESSURE NON-CONDENSING, or a CORNISH, STEAM-ENGINE, with two bollers, each sufficient to work the engine—the power to be about 40 or 50-horse. Also a PUMPING APPARTUS.—A description of the engine and pumping apparatus to accompany the tender—stating maker's name, the condition of the machinery, and price at the works.—Address "A. B.," Queen's Hotel, Biruningham.

SECRETARY WANTED.—WANTED, for a Metropolitan Gas Company, a SECRETARY, possessing education and good address, whose qualifications extend to a thorough knowledge of business and commercial accounts—preference will be given to parties conversant in gas affairs.—Address (under cover) to the Chairman of the Equitable Gas Company, 21, John-street, Adelphi, London, on or before the 17th June next, marked "Secretary" in the corner of the envelope. Testimonials, or copies of testimonials, to accompany the applications.

TO FURNACE MANAGERS.—WANTED, at an old established iron-Works, a PERSON to TAKE CHARGE of THREE BLAST-FURNACES, who is thoroughly acquainted with the adaptation of Cold and Hot Blast, and the regulation of the Heaters and Apparatus; also to SUFERINTEND the COKING and MINE BURNING, both in kilns and open. He must be able to write well, so as to keep the necessary accounts. A forge and mill, capable of turning out a large make of finished iron per week, are connected with the furnaces, the whole being under a general manager. Apply by letter, in applicants' writing, to "T. J." Post-office, Wolverhampton, stating age, qualifications, references, and salary required.—May 16, 1850.

CONSULTING SHAREBROKERS -" FACTS AND FIGURES."

ESSRS. R. B. WATSON & CO., lately of Leeds, and formerly of Hull, have resumed BUSINESS, as CONSULTING SHAKEBROKERS, a LONDON. In the former place R. B. W. acted as a sharebroker for 10 years, and in he latter, as a commercial broker, for 10 years.

Having drawn up the last half-yearly accounts of the principal rallways, upon one uniform plan, they propose offering to investors, but not to mere speculators, their opinion of rallways, founded upon these facts and figures.

For terms, and a circular, apply at No. 39, Old Broad-street.

MINING PROPERTY.—Mr. HERRON has SHARES in the best DIVIDEND MINES FOR SALE, and which will give to the purchaser 17 to 25 per cent. for the outlay; amongst others are the following:—Trevisky, Trelawny, South Tolgus, East Wheal Rose, Great Devon Consols, West Buller, South W. Frances, South Wheal Basset, Stray Park, Botallack, United Mines, Goginan, Tincroft, Treleigh, Bedford United Imperial Brazilian, St. John del Rey, United Mexican, Cobre, and Santlago Mines.—Mining Offices, 33, Clement's-lane, Lounbard-street.

MINING INVESTMENT.—Messrs. BOXALL & CO., CROSBY HALL CHAMBERS, BISHOPSGATE-STREET, are PURCHASERS of SHARES in the foliowing MINES:—Wheal Golden, Penzance Consols, Wheal Langford, Byrn-arian, West Polgooth, Runnaford Coombe, Wheal Sarah. Hennock Silver-Lend, Wheal France, Davien, Whoal Mary Ann. Theroft, Coombe Valley Quarry, and Wheal Vincent: they also have SHARES FOR SALE in Wheal Providence, Devon Great Consols, Kingsett and Bedford, South Plan Wood, Herodsfor, Altred Consols, Wheal Troscoll, and Wheal Carponter.

Mining offices, 13, George-Yard, Lombardstreet.—Offices of the
Herodsfoot Mine;
Keswick Mining Company;
Wheal Venton; and the
Black Craig and Craigton Consolidated Mines.
John Watson, Secretary.

MR. EVAN HOPKINS, C.E., F.G.S., CONSULTING MINING ENGINEER, OFFICE, No. 13. AUSTINFRIARS, LONDON.

OFFICE, No. 13, AUSTISFRIAMS, ECADOS.

Mr. HOPKINS may be consulted daily by Noblemen, Gentlemen, and Capitalists, who have invested, or may wish to invest, their capital in MINES or MINERAL PROPERTIES, on all matters connected therewith (Home and Foreign).

**s* Every description of Mineral Property inspected and reported on, and distant capitalists may receive periodical advice, in the German, French, and Spanish Languages.

MR. TRIPP, MINE AGENT, EXCLUSIVELY FOR PRINCIPAL PALS, is instructed to transact BUSINESS in most of the best DIVIDEND-PAY-ING MINES; also in NEW ONES, having present and prospective advantages, of which some are the following: —Devon Great Consols, West Buller, West Caradon, Condurrow, Wheal Margaret, Treviskey, East Wheal Rose. Alfred Consols, Stray Park, North Roskear, Cook's Kitchen, Wheal Tressury, Wheal Comfort, Penzance Consols, Wheal Tresmayue, South Tamar, Tamar Consols, Wheal Penhale, Kingsett and Bedford, Hennock Lead, Budmin Consols, St. Lago, Linares, St. John del Rey, &c.

MINING AND SHARE OFFICES, ST. MICHAEU'S CHAMBERS, ST. MICHAEU'S-ALLEY, CURNHILL, LONDON.

MR. T. A. READWIN, MINING OFFICES, winchester-buildings, old Broad-Street, London.

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND
AND MINING SURVEYOR.
No. 15, OLD BROAD-STREET, LONDON. MR. GEORGE BATE, Jun., CIVIL ENGINEER AND SURVEYOR, WOLVERHAMPTON.
Offices in Queen-street, conner of Piper's-row.
N.B.—UNDERGROUND MINING SURVEYS accurately executed.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

CRAIG DDU SLATE COMPANY.—The ANNUAL GENERAL MEETING of the Craig Ddu Slate Company will be held at the offices of the Company, 25, Parliament-street, Westminster, on Thursday, May 30, 1850, at One precisely.

MEXICAN AND SOUTH AMERICAN COMPANY,
No. 10, New Broad-street-mews, May 24, 1850,—The FIFTEENTH ANNUAL
GENERAL MEETING of the Proprietors of Shares in the Mexican and South American
Company will be HELD at the office of the Angio-Mexican Mint Company, No. 5, Broadstreet-buildings, on Wednesday, the 12th day of June next, at One o'clock precisely.
At this meeting a DIRECTOR will be elected in the place of J. D. Powles, Esq., who
retires by rotation, but is eligible for re-election, and will be proposed accordingly.

H. W. SCHNEIDER, Managing Director.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS tO GEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS their steamers—starting from Southa z on or about the 10th of the month. m Southampton on the 20th of every month; and fi

BOAIE AV.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malia, thence to Alexandria by her Majesty's steamers, and from Suez by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. CONSTANTINOPLE—On the 29th of the month.

ALEXANDRIA—On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.

For plans of the vessels, rates of passage-money, and to secure passages and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place, Southampton.

DOYAL POLYTECHNIC INSTITUTION.—COURSE OF TWENTY LECTURES, of two hours each, on USEFUL PRACTICAL CHEMISTRY, under the direction of J. H. Peppers, Esq., adapted for Manufacturers, Schoolmasters, and Students. The Course will be a Systematic Series on the Elementary Details and Manipulations of Chemistry, the Atomic Theory and Symbols, Preparation of Gases, Acids, Saline Bodies, Qualitative and Quantitative Analysis.

To commence on the 37th inst.—Fee, including admission to the Institution during the Course, Two Guineas.

R. I. LONGBOTTOM, Secretary.

Analyses of Soils and advice to Farmers at very moderate charges.

Transactions of Scientific Bodies.

(2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
MEETINGS DURING THE ENSUING WEEK.		
MONDAY Geographical-3, Waterloo-place	7	P.36
British Architects—16, Gresvenor-street	8	P.M
Medical - 3, Bolt-court, Fleet-street		
TUESDAY		
Medical and Chirurgical 53, Berners-street		
Civil Engineers - 25, Great George-street		
Zoological—11, Hanover-square		
WEDNESDAY Society of Arts -Adelphi	84	P.M.
Royal Botanie—Inner Circle, Regent's Park	31	P.M.
THURSDAY Royal-Somerset-house		
Autiquaries—Somerset-house		
FRIDAY Royal Institution—Albermarle-street		
SATURDAY Asiatic -5, New Burlington-street	72 (1)	P.M.

ROYAL INSTITUTION.

ROYAL INSTITUTION.

The subject of Dr. Faraday's fourth lecture, on Saturday, was "a chimney," The importance of chimneys, and the great work they perform in clearing away, not only the products of combustion, but the air vitiated by respiration, were strongly insisted on, and numerous illustrations were presented for the purpose of showing the amount of work done by a chimney. A parlour fire will consume, in 12 hours, 40 lbs. of coal, and the combustion of that weight of fuel will vitiate 42,000 gallons of air, so as to be unfit to support life. Not only is that large amount of deleterious products carried away and rendered innoxious by the chimney, but five times that quantity of air is also carried up by the force of the draught, by which means the ventilation of our apartments is effectually maintained. The actual weight of matter, indeed, that ascends a chimney, in the course of 12 hours exceeds 2000 lbs. To show how the expansion of the air operates in causing the ascent of smoke up a chimney, Dr. Faraday heated a glass tube closed at one end, and then inverted it in a dish that contained coloured liquid, which ascended the tube several inches as soon as the air expanded by the heat contracted by being cooled. The height to which the liquid rose showed the quantity of air that had been expelled from the tube by heat; consequently, that the column of heated air was so much lighter than an equal column of cold air. Several experiments were exhibited for the purpose of showing the force exerted by the draught caused by the ascending column of heated air in a chimney, among which was an illustration of a descending flue. A coloured flame was held near the end of a tube that was bent like an inverted syphon. As soon as the tube was heated, the ascent of the air within the longer arm of the tube drew the flame downwards into the shorter arm with considerable force. Since the ascent of smoke up a chimney depends on the comparative lightness of the column of air within to that of an equal column without, therefor within the longer arm of the tube drew the flame downwards into the shorter arm with considerable force. Since the ascent of smoke up a chimney depends on the comparative lightness of the column of sin within to that of an equal column without, therefore the longer the chimney the stronger will be the draught, if the fire be sufficiently great to heat the air; but if the chimney be so long that the air is cooled as it approaches the top, the draught is diminished. Dr. Faraday mentioned a case of this kind that occurred at the lighthouse on the south of the lale of Portland. The chimney which ventilated the building and the lantern was carried on the outside, and in winter time the draught was so much impaired that the windows became dim and the lights obscure. He was commissioned to examine into the cause, when he ascertained that, owing to the exposed situation of the chimney, the air within it was, in cold weather, rendered heavier than the air in the building. An attempt had previously been made to remedy the defect by lengthening the chimney, but that had made it smoke more; a model of the chimney was exhibited, and by means of a frigorific mixture applied externally, the effect described was exemplified. A shimney sometimes smokes in consequence of the more powerful draught of another chimney of weaker draught will be reversed. Chimneys frequently smoke in consequence of the wind blowing down them; but this defect may be remedied by altering the construction of the top, so as to give the wind an ascending direction. If that be attended to, the wind increases the draught of a chimney. As an exemplification of the top, so as to give the wind an ascending direction. If that be attended to, the wind increases the draught of a chimney. As an exemplification of the best mode of presenting surfaces to resist the force of the wind, Dr. Faraday adduced his personal experience during the past week on Woolwich Common. He said he had put up his umbrella to screen himself from the wind, and in the first instance he nat

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

The interest excited by Professor Ansted's lecture at the Royal Institution appears to be on the increase—the members present in the theatre on the 23d inst. being far more numerous than on any previous occasion.

Professor Ansted commenced by stating that the subject of that day's consideration would be mineral fuel generally, and coal more particularly, together with the vast importance of practical geology in obtaining a supply of this most useful material. The substance known to chemists as carbon, and popularly known under many other terms, was very widely distributed throughout nature. The different forms under which carbon presented itself was one of the most interesting facts of which the man of science was cognisant. In its most crystalline form it furnished the glittering diamond—when almost crystalline it gave to the artist the black-lead of his pencils, and it diffused light and warmth through their habitations and cities during the inclemency of winter, in the shape of coal and its products. These were three very distinct conditions in which this remarkable substance was found. Fuel was obtained directly from the vegetable kingdom in the shape of wood, peat, turf, and lignites, but there were many other substances which might be used as fuel if there were large quantities of them, and they were not more usefully employed in other ways. An instance of this kind was amber, which presented carbon in a shape well calculated for ried, but of course it was put to purposes better suited to its other qualities—its value and the smallness of its quantity. He would, however, proceed at once to the subject of oal, and first as to its association and distribution. It was generally found in beds associated not merely with other minerals, but with the remains of vegetation; and in this way the subject connected itself geologically with different periods of the earth's history, at which the condition of the vegetable kingdom in these islands was altogether differ

ever, that we owed our eminence as a coal country rather to the use we made of the material we possessed, and the convenient way in which it was placed, than to the largeness of our supply; other countries, and particularly the United States, having also enormous coal-fields. Great Britain yielded annually 31,500,000 tons; Belgium, 5,000,000 tons; the United States, 4,500,000 tons; Prussia, 8,600,000 tons; and France, 4,500,000 tons. Great Britain had a vast preponderance in the quantity of fuel, thus derived from her beds, but those beds were by no means excessively large when compared with those of other countries. In the United States there were 183,000 square miles, or 1-17th of its whole area, underneath which was coal; in British America, 18,000 square miles, or 1-10th of its area; France and Belgium comparatively nothing, although the beds were well worked in those countries.

These proportions were represented in a diagram.

The following table would show in a striking manner the mineral wealth of

The following table would show in a striking manner the mineral wealth of reat Britain; it showed the annual value upon an average of the three years adding with 1846, made up from official returns:—

	Great Britain.	Annual Value.
х	Iron-1,500,000 tons	£9,000,000
	Coal-38,000,000 tons	
	Salt, alum, building materials, &c	1,500,000
	Copper, tin, lead, and other metals	
		# con con
	The average annual value of all the gold and silver obtained in	

all other countries of the world £13,000,000

The value of coal was influenced by some of the conditions which he had entioned as affecting slate, particularly that of conveying it cheaply and con-

veniently, and this accounted for English coal being much in demand in countries which had coal of their own. De this reason English coal was much used in France, although it was much professor them drew attention to the ground and of the professor in the demand professor them drew attention to the ground of the manufact. The manufact of the manufac

tieth of the whole surface being occupied by coal beds, which produced annually 5,000,000 tons.

In Germany the quantity was very small, being confined to a few localities on the banks of the Rhine and the Moselle; and in Eastern Austria there were one or two small workings. In the north of Spain there was a quantity greater even than that of our own country, and it was by far the most important district on the continent of Europe.

In other parts of the world it was distributed at wide intervals. In Asia there did not appear to be any large quantity, unless it were in China. No doubt mineral fuel existed in that yest country, but where it came from was very uncertain. In India it was desirable that efforts should be made to ascertain whether there were other coal measures besides those in the neighbourhood of Calcatta and in Assam. In consequence of the imperfection of the means of transit, the coal used in India was almost exclusively brought from England.

means of transit, the coal used in India was almost exclusively brought from England.

In South America there was scarcely any; but in North America were the most important coal fields in the world. The quantity was scarcely credible; but careful examinations, which had lately been made, had satisfied men of science that the accounts were not exaggerated. Thus in eight of the states there were 65,300 square miles of coal country. It often lay in horizontal beds; but un some cases was tilted and broken, as in England. There was an important bed in Virginia, which was regarded by geologists with great interest. Like that of St. Etienne, in France, it was of a different geological age to the coal of England. There was no doubt but it was of a much more modern period; while that of India was generally held to be much more ancient. In Pennsylvania there were 400 square miles of anthractic coal country; and in Nova Scotia and New Brunswick there were 10,000 square miles.

In speaking of coal it was necessary, so far as England was concerned, to bear in mind the iron associated with it, in thin bands alternating with the coal, or in nodules or lumps. In many places the thinness of each layer was such as to make it necessary to work them both together. The ore itself was generally of a poor quality; but being associated with the coal and limestone necessary to smelt it, that circumstance made it of more value than a purer ironstone under different conditions, and that was really the secret why in this country we had such enormous iron minufactories. Where the ironstone was of a richer quality it was of a darker cobur, and was then known by the name of "black band."

In bringing this lecture to a close, the learned professor drew the attention of his anditory to the vast importance of coal to a country like England: and

of a richer quality it was of a darker cobur, and was then known by the name of "black band." In bringing this lecture to a close, the learned professor drow the attention of his auditory to the wast importance of coal to a country like England; and the great beneficence of the Creator in so overruling its conditions, as to make it in the highest degree serviceable to the people. Where should we obtain the means of protecting ourselves from the inclemency of this northern climate, and of shedding a glow of social cheerftlness over our now happy homes if we had not this material so situated on ourshores and our rivers, that it could be readily transported to our towns and cties by ships, or to the interior of the country by railroads?—where should we manufacture our iron, if it were not for the abundant and cheap supply of this valuable fuel in the exact spot where the metal occurred? And without coal could we have advanced beyond the ages of barbarism—could we have printed books for the multitude—could we have found raiment for our populatism—could science have advanced—and might not England have remained in the background, and unable to have excersed that intellectual activity which had placed her in advanced of all the world? Without coal we could have hid no applications of steam as now, even if that powerful agent had been discovered—and with steam and coal who could say what bounds were to be placed to the achievements of Science? Looking at the whole question geologically, he was of opinion that if any other fuel of a better kind should be hereafter discovered, it would be by the aid of coal, and the consequence directly of its employment. (Cheers.)

INSTITUTION OF QVIL ENGINEERS. MAY 21.-WILLIAM CURITY, Eq. (President), in the Chair.

The paper read was "On Printing Machines; especially those used in the Printing of the Times Newspaper," by Mr. Edward Cowper. The object of the paper was principally to describe the machinery which had been in use, at various times, for printing the Times newspaper, other machines being only referred to as assisting to illustrate the sulject, for which purpose a brief review of the progress of printing machinery was given.

of the progress of printing machinery ws given.

Some interesting statistics, relative to the printing of the Times, were mentioned, from which it appeared, that on he 7th of May, 1850, the Times and "Supplement" contained 72 columns, or 17,500 lines, made up of upwards of a million pieces of type, of which matter abut two fifths were written, composed, and corrected, after 7 c'clock in the evening. The "Supplement" was sent to press at 7.50, r.m., the first form of the piper at 4.15, a.m., and the second form at 4.45, a.m.; or this occasion, 7000 papers were published before 6.15, a.m., 21,000 papers before 7.30, a.m., and 34,000 before 8.45, a.m., or in about four hours. The greatest number of copies ever printed in one day was 54,000, and the greatest quantity of printing in one day's publication was on the 1st March, 1848, when the paper used weighed 7 tots, the weight usually required being 4½ tons; the surface to be printed every night, including the "Supplement," was 30 acres; the weight of the fount of type in constant use was 7 tons, and 110 compositors and 25 pressmen were ionstantly employed. The whole of the printing at the Time office was actually performed by three of Applegath and Cowper's four-cylinder machines, and two of Applegath's new vertical cylinder machines.

The President afterwards briefly addressed the meeting, congratulating the nembers on the continued success and prosperity of the Institution, and excessing a hope that, during the recess, original communications would be preared for the next session, so that it might, at least, equal in interest that which

RECENT AMERICAN PATENTS.

RECENT AMERICAN PATENTS.

Axces for Carriages.—Mr. John J. Flack, Joliet, Illinois, says, "the principle object of my improvement is to do away with friction, so that any given weight can be moved or transported with a comparatively small power will serve to move or transport any given weight, with much more ease and facility than it can be done without such improvement.—Caim: What I claim as my invention, is making the axle concavo-convex, combined with the friction rollers are never to come in centact with the concavities thereof, in such a manuer that the rollers shall protrade from the underside of the axles, downward, and rest upon the boxes in the lub (the upper side of the said friction rollers are never to come in centact with the concavity of the axles), having the whole load or burden supported by the rollers, and thereby save a large amount of friction which occurs in using the common or sliding axles."

Areamogement of Steam Boilers and Furnace Thereof.—Mr. H. Boardman, Plattaburg, says, "the nature of my invention consists in giving to the fire box or combustion chambers of boilers the form of an inverted cone or pyramid, surrounded by a water case of the same general form, the thickness of the upper part of which is greater than the lower, and communicating at its upper part, by passages through the water casing, with an inverted pyramidal chamber, by which the products of the combustion are conveyed downwards and discharged below the fire box; the outer or gas chamber is of greater area at its top, where it communicates with the interior of the fire box, than it is at its bottom, where the spent gases; the inflammable gaseous products of the grate, and heated by the spent gases; the inflammable gaseous products of the combustion are burned by the introduction of jets of air at the passages through the water casing.—Claims: What I claim as my invention, is giving the combustion chamber with the gas chamber, for the purpose herein set forth. I likewise claim the injection of a jet or jets of air at

specified."

ANGULAR ROTATING TUYERE.—Mr. Samuel H. Camp, Hartford, says, " the nature of my invection consists in the employment of a square, rectangular, hollow revolving grate or tuyère iron, for forges, perforated with apertures of different sizes, forming bars in the sides, for regulating the admission of air into the fire of the forge, and for breaking the scale of metal by edges of the grate or tuyère iron, when it is resolved to prevent the tuyère from being choked.—Claim: I claim the tuyère, of a square, rectangular, or hexagon form, having edges, and revolving, not on an eccentric axis, but a central axis, to break off the scale formed by the fire upon the metal, by turning round the tuyère, when such tuyère is constructed hollow, and with apertures of different sizes upon its different faces, through which the blast is forced; the whole being constructed aubstantially as described."

substantially as described."

Working the Air-Pump, and Using a Condensing as a Non-Condensing Esoine.—Mr. R. F. Loper, Philadelphia, says, "the nature of my improvement consists in the arrangement of the engine within a vessel for propelling, and the peculiar combination of the air-pump therewith, together with the method of converting the engine at once into a condensing or non-condensing engine.—Claims: What I claim as my invention is, first, the combination of the air pump with the engine, in the manner set forth, by which I work it more easily, and reduce the number of actions of the valves one-half less than can be done in the ordinary way; I also claim the arrangement for converting the engine into a condensing or non-condensing engine, by opening or closing a free vent for the steam from the condenser, as set forth."

Living Matalla Matalla Plates of Dealer of the same Prof. Cohesent

engine into a condensing or non-condensing engine, by opening or closing a free vent for the steam from the condenser, as set forth."

UNITING METALLIC PLATES TO EACH OTHER.—Mr. Samuel Pratt, Cohasset, Massachusetts, asys, "the nature of this invention consists in making two or more incisions in the hoop plate, near the ends of the same, or in the pieces of metal to be joined, of the form of a right angle, by means of a punch, or in any convenient manner, so as to cause the body of metal between the angular incisions in one plate or piece, or on one end of the hoop plate, to be raised above the surface of the same, and the metal between the angular incisions of the other plate, or opposite end of the hoop plate, to be depressed below its surface, in such a manner as to allow of the projecting portions, near one end of the hoop plate or piece of metal, to be passed through the incisions near the opposite end of the hoop plate, or in the other metal plate, to be joined and locked into the same, and the projecting portions to be pressed together.— Claim: What I claim as my invention, is the mode of securing together the extremetics of metallic hoop bands, to form hoops or metallic plates, by making angled incisions in the same, and locking the projecting portions of metal between the lines of said incisions into each other, and pressing or hammering them together, so as to form smooth surfaces above and below, in the manner described."

HARDENING METALS.—Mr. A. Wheeler, Warwick, Massachusetts, claims, "hardening steel or iron by immersing it below the surface of, and in, water, and then causing one or more jets to play through the body of the water, and against the metal or part thereof to be hardened."

VALVES OF ROTARY ENGINES.—Mr. James P. Ross, Lewisburg, says, "the patents of the interval of the projecting for the metal or part the roof to be hardened."

VALUES OF ROTARY ENGINES.—Mr. James P. Ross, Lewisburg, says, "the nature of my invention consists in the mode of connecting the runner or piston with the annular chamber, the construction, adaptation, and mode of operation of the valve, and the connection therewith of the cut-off when used.—Claim: What I claim as new, is the sliding valve, constructed as described, with an exhaust port therein, which is stopped by the piston while it is opening the valve, as set forth."

MAKING SPIRAL SPRINGS OF WIRE.—Mr. W. Van Anden, Trenton, New Jersoy, claims as his invention, "the entire method of making springs of curved character, in flat or spiral form—viz., by forcing the wire, by notched toothed wheels or otherwise, between friction rollers, tubes, or smooth bars, so as to form a wire spring into a curved and spiral form at the same time, by means of varying the tool as described. Also, the method of varying the size of the curve, by moving the operating tool by a cam, inclined plane, or any similar mechanical contrivance."

by moving the operating tool by a cam, inclined plane, or any similar mechanical contrivance."

LOCOMOTIVE SPARK ARRESTERS AND SMOKE CONDUCTORS.—Mr. J. F. Flagg, Boston, claims, "in combination with the deflector for directing downwards the current of sparks in a locomotive chimney, the inverted conical jacket or callender, when perforated with horizontal holes, and each hole furnished with flanges which project upward withinf, and downward on the outside of, said jacket, whereby the sparks are directed down into the space between the jacket and the outer case of the chimney, and are prevented from rising upward, as set forth. I also claim, in combination with a horizontal chimney for locomotives, the mouth-piece or inhaler, having two upright partitions meeting in an edge or vertical line at the front, whereby the two parts of a divided current of air are made to pass around the sides of the interior chimney, and to unite beyond the opening which gives exit to the smoke or gases, in such manner as to augment the draft of the horizontal flue, while avoiding the entrance of the air to the vertical part of the chimney. I also claim, in combination with a horizontal flue for locomotives, the moveable inhaling valves, which form the lateral gorges, for the purposes set forth, whereby the amount of draft may be increased or diminished at pleasure, whether the cars move with one or the other end foremost."

other end foremost."

Gas Apparatus.—Mr. A. Walker, Burke, Vermont, claims as his invention,
"the mode of washing the gas, or evaporating the acid, the same consisting in
the employment of a close horizontal vessel, and a current of water made to
flow through it as specified, and passing the gas into one end of the vessel and
water, and out at the other end thereof, all essentially as specified. I also claim,
the combination of a lime cistern or vessel, with either the gas holder or purifler, in manner and for the purpose as above specified; not meaning to claim
the use of lime for abstracting moisture, as the same is a well-known absorbent."

Another Wonderful Cure of a Dreadful Swelling by Holloway's ANOTHER WONDERFUL CURE OF A DREADFUL SWELLING BY HOLLOWAYS OF CHYMENT AND PLIE.—John Forfar, a farm labourer, of Newbro'r, near Hexham, had an enormous swelling on each side of one of his thighs: he was under the advice of three eminent surgeous, and afterwards an inmate of the Newcastle Infirmary, altogether about two years; but the efforts of the doctors proved uncless, as he derived no benedit from their treatment. Hearing so much in praise of Holloway's Olutunent and Pills, he determined to give them a trial, and these valuable medicines effected a cure in about eight weeks, although he was working twelve hours a day at haymaking. Afterwards he continued at work, without pain or discondert, throughout the winner.—Sold by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

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THUBSDA

TUESDAY

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Proceedings of Public Companies.

MERTINGS DURING THE ENSUING WERK.

ong the Mining Intelligence. [The meetings of Mining Companies are inserted am

NATIONAL BANK OF IRELAND.

The annual general meeting of this company was held at the establish ment, in Old Broad-street, City, on Wednesday, the 22d inst.,

OCTAVIUS OMMANNEY, Esq., in the chair.

Mr. King (the secretary) read the following report of the directors:-

Mr. King (the secretary) read the following report of the directors:—

EFORT.

The directors have pleasure in meeting the proprietors, and submitting for their approval the usual statements of the bank's accounts for the past year. The general result of the harvest in Ireland in the last year was, on the whole, favourable, in respect to the abundance and average quality of the grain crops; but Treland being essentially an agricultural country, the ruling low prices of its products have had a depressing tendency upon the farming interest generally. The loss, however, from the disease in the potato grop has proved less than was at one period anticipated. After four years of unexampled depression and suffering, amongst all classes and interests, it affords the directors much gratification in being enabled to state that there are symptoms of improvement, and indications of returning confidence, which, although slow in their operation, are on that account, perhaps, not the less secure. The directors have deemed it prudent to transact a restricted business; it is their intention to continue in this waterful course until the restoration of credit and confidence has produced its effect on the trade, agriculture, and commerce of the country. Money has been abundant, with a limited field for its legitimate employment, and, consequently, but a low rate of interest could be obtained for a large amount of surplus capital of the bank. All the ascertained bad debts of the bank have been written off, and the half-yearly dividends, at the rate of 5 per cent. per annum, have been paid. The undivided profits at December, 1848, were—

Leaving amount of undivided profits to the credit of the reserve fund at December, 1849

The favourable aspect in political 'affairs generally has been productive of very beneficial results to the trade of the United Kingdom, which continues to exhibit the most marked evidences of improvement; and it is hoped that Iroland will, ere long, largely participate in the general prosperity.

There are now to be elected four directors, in the room of Thomas Lamie Murray, Esq., shreet term of office has expired, but who are eligible for re-election, and offer themselves accordingly.

The CHAIRMAN, in moving the adoption of the report, congratulated the proprietors on the general state of their accounts. Although they did not at present divide so much as in former years, he was still entitled to use the word congratulation. (Hear, hear.) Having alluded to the late afflictions of Divine Providence in respect to Ireland, and the difficulties banking had to encounter from the effects of such disasters, he stated that banking had to encounter from the effects of such disasters, he stated that the directors had considered it more prudent to restrict their business, and do it on a safe footing. With this precaution before them, they had, notwithstanding, been enabled to entertain every desire for accommodation that was accompanied with good security. This course had certainly trenched on their profits, but had saved the bank from loss, and had enabled them to preserve their rest at the same amount as it was last year—viz., 50,000/. (Hear, hear.) This sum was sufficient to meet all contingencies. Every expenditure would be now reduced to the standard of their more limited but more safe business. The amount paid to all the local directors in Ireland was but 900/. a year, which he thought a small amount. They had been obliged to wind up one branch at Parsonstown, but still their deposits were increasing in other parts, and there was now a greater degree of confidence in the establishment than ever. (Hear, hear.) He (the chairman) concluded by expressing his confidence that the future would tend much to the increase of banking profits in Ireland, and that a haven of prosperity and happiness was now visible for the safe mooring of the vessel in which they were all embarked. (Applause.)

Mr. Newsam having complained of the manner in which he had been ejected from his office of director, and of proxies being paid for by the bank, expressed much concern about the liabilities of the London and Dublin Bank, taken over by this company.

The CHAIRMAN, in reply, said that no proxies for the late election were paid for by the bank. As to the bad debts of last year, they amounted to 12,400/., which amount was written off from the gross profits. He had the satisfaction of saying that, in spite of all their losses from the misconduct of clerks, and other causes, their capital was now as intact as ever, besides which they had a reserve of 50,000/. (Hear, hear.) As to the London and Dublin Bank and its branches, the directors had the best securi the directors had considered it more prudent to restrict their business, and

Mr. Newsam alluded to former statements of Mr. T. L. Murray, in which he maintained the accounts were mistified, so as to appear more favourable.—This led to some discussion.

Mr. T. L. Murray denied that the accounts were mistified; he had always opposed a higher dividend than 5 per cent., though his own interest would have led him to the contrary. (Hear, hear.)

Mr. Sattemuck hoped the impression which prevailed in Ireland, that there was an anti-Irish feeling at the board of directors was untrue. He felt, however, that if the directors would pay more frequent visits to Ireland, by which they would become better acquainted with their customers, and the circumstances of the country, there would be more business done for the advantage of Ireland, as well as the proprietors.

The Chairman denied in toto that any such feeling as that mentioned by Mr. Smithwick existed at the board, who were always most anxious to do all they possibly could for the benefit of Ireland. (Hear, hear.)

Mr. Smithwick observed that he had no objection to English directors, but he only wished them to be more acquainted with the real circumstances of Ireland. (Hear, hear.)

of freland. (Hear, hear.)

Mr. Ruding said that he was ready at any time to resign his seat as an English director for any one the proprietors might nominate. (No. no.)

Mr. Reade (a director) spoke of the great diligence exhibited by the English directors, and also of the honourable conduct of Mr. J. O. Connell, their new director.

The CHAIRMAN said the number of English and Irish directors at the

After some further discussion, the Chairman moved the adoption of the report, and that it be printed and circulated amongst the proprietors.

The motion having been seconded, Mr. Power moved an amendment to the adoption of the report, which was to the effect that auditors be appointed to examine the books and accounts of this bank, and that they report generally on the management and position of the company. The hon, proprietor grounded his motion on the low price of the shaves in the

port generally on the management and position of the company. The hon, proprietor grounded his motion on the low price of the shares in the market, which he said would not be the case if their affairs were well managed.—The resolution fell to the ground through not being seconded.

Mr. T. L. Murray (a director) observed that no bank could be better managed than the National Bank of Ireland. He was sorry to say that the ill-feeling manifested by Mr. Power erose from his being proceeded against for the defalcations of one of his relatives at the Clonmel branch.

The report was then adopted unanimously.

Mr. Newsam moved a resolution, that no forther advances should be made to the directors.—The Chairman said that it was no longer the custom of the bank to make such advances.

The retiring directors, T. L. Murray. Esq., Sir Ralph Howard, Bart, J. C. Ruding, Esq., and James Reade, Esq., were re-elected unanimously.

A vote of thanks having been passed unanimously to the chairman and directors, and to Mr. King, the secretary, the meeting separated.

THAMES TUNNEL COMPANY T is number of passengers who passed through the Tannel in the week ending May 18, was—No. of passengers 16,645. —Amount of money, £69 7s. 1d.

Briginal Correspondence.

MINING IN WALES-RULES IN MINES.

MINING IN WALES—RULES IN MINES.

Sir,—The letter, signed "Hard-Working Miner," in your Journal of the 11th inst., appeared to me as first sight to convey matter which, before that time, I had been ignorant of; and, fancying my knowledge of the district to be tolerably perfect, I forebore to entertain any part of it as being the true character generally of Flintshire mining, although I could not shut my eyes or ears to many things passing around me; but, within the last few days, a matter has come to light, convincing me that all he said, and a great deal more, is, in all probability, true; and from the proceeding now taken by the adventurers of a mine that I will not at present name, matters may come out, and I have no doubt will come before you, as an assistant corrector of all mining mistakes and abuses.

I fully agree with that letter, with the exception of his attributing the fluctuations wholly to the miners themselves, or adventurers in mines. The true fluctuation arises from the following causes:—The exaction of high and extravagant royalties; and, secondly, the disposition in parties to cripple any one who disagrees with trifling dishonesty; and, thirdly, an extremely crying evil—the annual bargain system, on the Halkin and Holywell Mountain, where a grant only of 60 yards long, and 30 yards wide, is obtained, and a stowces, so called, and a rope-fixed on it, at any little pit, a few yards deep, is a sufficient plea to their stealing and selling ore from such bargain. This mode of proceeding is the source of their from established mines, giving, in many instances, the royalty due to one landowner to another.

I feel certain that both the employed and employer know but little of

from established mines, glving, in many instances, the royalty due to one landowner to another.

I feel certain that both the employed and employer know but little of the principle, or of the injury such bargains bring on proper mining; and it will be found, on further looking into, that in such small bargains a large per centage of the ore sold from them has found its way from the established mines of the neighbourhood; and, to my astonishment, the established mines themselves are the letters of such annual bargains to their own men on double royalty, thereby providing them a dependent employment in their own mine, and an independent one in the annual bargain, besides, in many instances, stores of all descriptions for working them, and very often a little ore, too, just trifling, against rent day, or tide time—for the sale of which the greatest facilities are given by jobbers, always ready to buy even less than a pound weight. Do not, Sir, be surprised if I tell you, at some future day, that reserves, laid open in mines of the county some years ago, containing many hundred tons of ore when first laid open, have been found to have considerably reduced, owing to facilities given to fraud; and others will still be found very deceptive—honey-comb like, when taken away; the comb left, but honey gone; hence the dam shutting out capital from the Flintshire mines. But I shall still hope to see mining in Flintshire conducted on true principles, when I think the county will be found to stand high as a mining one, and worthy the attention of capitalists.—A Shareholder: Manchester, May 21.

GOLD MINES OF THE DARIEN—EMIGRATION & CANALISATION OF THE ISTHMUS OF DARIEN.

GOLD MINES OF THE DARIEN—EMIGRATION & CANALISATION OF THE ISTHMUS OF DARIEN.

SIR,—I observe, in your last week's Journal, that Dr. Cullen has been in the Darien, examining the rivers and auriferous rocks in the Gulf of San Miguel. This part of the isthmus is principally formed of auriferous granites and porphyries, with immerable bands of slate passing through, north and south, in vertical planes, which, by decomposition, enrich the intersecting streams and rivers with gold; but there are no plains, or flat banks, at the foot to form extensive deposits, like Choco and California. A French company was formed in Paris in 1846, to work the above gold streams, and other minerals and metals, represented then as being very abundant in the isthmus. I was officially engaged by the Government of New Granada to proceed to the isthmus on its behalf, to inspect the mineral districts, and to meet the French party, previous to commencing operations. I soon found that the parties had been deceived by false reports; and that, although gold washings did exist in many parts of the isthmus, there were none of them worthy of a company's notice.—(See my Report on the Isthmus, as,published in the Mining Journal of April and May, 1848.) I recommended the French Minister to send all the men back to France immediately from Portobello, to save their lives; but, before this was done, about two-thirds of them died.

The gold washings of San Miguel may do well for the natives; and if Dr. Callencelle, intended the present of them the content of them them.

e gold washings of San Miguel may do well for the natives; and if Dr really intends returning there, and wash them on his company The gold washings of San Miguel may do well for the natives; and if Dr. Cullen really intends returning there, and wash them on his own account. I would recommend him to obtain negroes from Choco for that purpose, as being much better adapted for the work, as well as being more capable of living in such a climate as the Darien. His observation as to the most suitable point for effecting a communication, is evidently not from personal examination and surveys of the respective lines, and, therefore, too vague, and not of sufficient limportance, to call for any comments.

Authorities. Many 2009.

Austinfriars, May 22. EVAN HOPKINS

SILVER MINES IN CORNWALL.

SILVER MINES IN CORNWALL.

SIR,—The reply of your correspondent, "S. S.," to Mr. Ennot's remarks on the silver lodes of Cornwall, is not to the purpose. A good silver lode (not a few isolated masses of native silver), if well managed, will pay, doubtless, like other minerals, in proportion to its capabilities. But this was not the question mooted; the point at issue, and what is wanted, is a well-founded statement from a person of experience, showing that such a silver lode exists in that county. The importance of assaying is well understood; but this knowledge, without mining knowledge, leads to very unfortunate consequences. If those who detect little gold in ferruginous "gossans," and silver in the decomposed chloritic slates, are allowed to write loose reports, to induce capitalists to come forward to work them as bond fide lodes of the precious metals, they do a great deal of injury to legitimate mining, and fully exemplify the truth of the old saying—"a little learning is a dangerous thing;" therefore, I think the public is indebted to Mr. Ennor for keeping such mine reporters in check.

Evan Hopkins. nnor for keeping such mine reporters in chick.

Austinfriars, May 22. EVAN HOPKINS

ON THE SILVER MINES OF CORNWALL.

ON THE SILVER MINES OF CORNWALL.

Sir.,—I feel extremely obliged for your inserting my former letters, and also the replies, in your valuable Journal. Being a well wisher to all who venture in mines, I merely made my former remarks to all the attention of those persons who get up mining speculations to be mire careful in their selection, choosing such as are most likely to be paying ines, without an eye to share-jobbing. My observations on silver mines were general, and without even knowing the agent, or shareholder, in a single mine in the district, that appears to feel it rather keen. I should have felt much pleasure to have had a few dividend-paying silver mines pointed out, which would convince the shareholders that there was a fair chance of remunerating returns: in this your correspondents have completely failed. You are aware of my constant practice to make no remark without my name in full; and I never give a general reply without the writer doing the same. Should your correspondents condescend to do so, I will furnish a more detailed account than appears to be known of these mines.—N. Ennor: Treborough, May 20

FALLACY OF GENERAL RULES FOR MINING.

FALLACY OF GENERAL RULES FOR MINING.

Sir,—The cursory review, last week, of a work on Terrestrial Magnetism, by N. Ennor, induces me to say a few words in contradiction to his remarks on recommending "analysing of the strata abut lodes." His recommendation, in my opinion, is absurd in the extreme: I think it would be much more reasonable for him te analyse the rock at surface, to see if rooting slate would be found 60 or 70 feet below; this I will leave with him to decide if he pleases, as I understand he knows more of slate quarries than of mines. As to analysing the strata about lodes, from what depth as the assays to be taken?—for surely, Mr. Editor, the depth must be taken into consideration; or does N. Ennor think it is the earth?—if so, I do not; and, If not the earth, pray how deep must we sink for it?—or must we, in the usual way, costean to find the lodes, then extract the same, and after this take the rock and analyse it?—or would it be better to analyse the lode as we go on? N. Ennor must have seen great changes in the same levels if he has been, as he says, a mine inspector ("I never inspected a rich mine yet but I fond some peculiarities in the stratum about it"); and what would he say if, a the addit level—say, 20 fathoms deep—mineral from thence to surface should be taken away at a large profit?—would the not reasonably suppose there is nineral below also? But in many cases it has proved to the contrary; and, in several places, I have known no ore has been raised until between the 20 and even 40 fm. levels. In such instances, can you analyse the strata about lodes? Again, did N. Ennor ever drive a level 100 fathoms, and the lode kep the same size, and yield the same produce throughout?—and, if not, when must your asays be taken from?—from the poor part of the level, or the rich!—as I presume that both may be said to be strata about the lode. I have seen some men whoattempt to analyse the surface and in the said to be; in this I have seen their predictions fail; and, as to laying down a general r

TERRESTRIAL MAGNETISM.

Sin,—I presume there is not a reader of your Journal who takes greater delight in seeing any information brought forth to assist the practical miner than myself; at the same time, I am equally as jealous of any innovations, and always prefer seeing subjects involving so much importance substantiated by facts. Your correspondent, N. Ennor, has taken upon himself to favour your readers with his opinion on "terrestrial magnetism;" but there is something so ambiguous in his remarks, that I deem them to be contrary to the acknowleged and established system of mining; and I should be obliged to Mr. Ennor to point out a single instance of mineral salts being thrown down from the strata, unless that strata contained some veln, or veina, of minerals, but to expect the strata to bring in mineral salts, unless impregnated with metallic ambetance, is an absurdity. For instance, if we take copper, are we to have a solution of copper from a killas stratum? I have always considered water, holding copper in solution, comes from the mineral, and not from the strata; and if this is what Mr. Ennor calls a peculiarity in the stratum about lodes, I admit it is a peculiarity indeed.—O. C. F.: Calstock, May 23.

BRUNTON AND Co.'s SAFETY FUSE FOR BLASTING.

Sir.—I should feel obliged by your withdrawing my name from the adver-sement respecting the above manufacture. Thomas Stainsby. Tincroft Mine, May 17.

CWM ERFIN MINE.

CWM ERFIN MINE.

Sir.—In your Journal of the 4th inst, there is a letter by "W.," calculated to throw doubt upon my assertion, that Mr. Taylor refused to accept a reduction of royalty in the Cefn Cwm Brwyno Mine. I have strong reason to be lieve that "W." offers himself as a champion without authority; that he interferes in a matter of which he knows nothing whatever is too plain to be gainsaud. He is, however, fond of expletives, and covers his want of information by largeness of expression. I merely now wish to ask him, is he authorised to deny my assertion as to Mr. Taylor, and the royalty of Cefn Cwm Brwyno? I shall not attempt to deny that it does appear (to use the fine language of my opponent) superlatively ridiculous that any person in his right senses should refuse to accept a reduction of royalty; but if all differences of opinion as to management of mines between myself and others rested upon grounds admitting of such easy proof as my statement does in this particular, I could soon settle all disputed questions between us; and I am perfectly willing to rest the general accuracy of my observations upon the truth of this assertion, and "W." to try the worth of the statements from my pen by this standard of accuracy. I do not go to proof until I hear from 'W.," that he has had authority to negative the assertion that he treats so cavalierly; and if he has so, I will immediately give you written corroboration, justifying my position; but I doubt if I shall ever hear from "W." again; but you will hear from me again about the management of Cwm Erfin Mine, notwithstanding the virtuous indignation of "W."—A Sharkholder: Rhayader, May 23.

LLWYNMALEES MINING COMPANY.

LLWYNMALES MINING COMPANY.

Sir,—My attention has been directed to a letter from Mr. Maitland, the purser of this mine, in your Journal of last week. As my name is introduced into that communication, I am quite sure that your sense of justice will permit me to make a few remarks in reply.

Mr. Maitland sets out by asserting that you misrepresented the proceedings of the late two-monthly meeting; but he does not offer the shadow of a proof in support of this charge against you. He gives you the numbers on the division that took place on my resolutions, showing a majority against me; but, if he refers to your report of the meeting, he will find it there stated that my resolutions were "negatived." Surely there was no misrepresentation there. Mr. Maitland, however, unconsciously admits that "9 out of 11" of the adventurers present had always been favoured with a perusal of such letters as he says I call private, soon after their receipt by himself! so that, after all, certain letters have been received, and the gentlemen who voted against my motion have had the privilege of reading them. I shall allow your readers to draw their own inferences from this. Mr. Maitland observes that these letters are such as I call private. May I ask him what he calls them? Were they ever laid on the table with the regular reports to the adventurers, and open to the unreserved inspection of every one interested? Were they not rather seen only by those lo whom it pleased him to show them?

I may also state, as astrong reason why Mr. Maitland undoubtedly received more votes than I did, that he is personally known to many, or most, of the adventurers; whereas, I have the acquaintance of but two or three—the others being totally unknown to mo. It can easily be imagined the feelings which induce friends to support each other, in preference to those with whom they are unacquainted; but it may be remarked that I never previously had the pleasure of meeting Mr. Carew, who seconded me most ably on the occasion referred to, and spoke most stro

is admitted by all who know him to be of the highest honour, and of the most sensitive ideas of integrity.

Mr. Maitland then goes on say that he advised some person not to sell their shares, "on account of good advice received [he does not state that he showed or told the particulars of these accounts], which was afterwards fully confirmed in the reports to the board!" Here is, surely, an admission tending to prove that my statements are correct. By "the reports to the board." I presume he means the official reports to the adventurers; but if there was anything important to report upon at the mine, why was Mr. Maitland advised of it, according to his own showing, before it was made known in the accounts to the adventurers generally? Why did not the latter receive advices at the same time?

it, according to his own showing, before it was made known in the accounts to the adventurers generally? Why did not the latter receive advices at the same time?

Allow me here to remind Mr. Maitland of one little incident. At the two-monthly meeting, in March last, the adventurers having complained of the non-receipt of any report from Capt. Henry Francis for a considerable time, a resolution was moved, expressing the disapprobation of the adventurers, and which was amended by the chairman, in a manner which conveyed their sentiments on the subject much more strongly than proposed in the original motion. A shareholder (whose name I could mention) then asked whether there had been any accounts at all from Capt. Francis since the receipt of the last official report (stating the date), upon which Mr. Maitland produced a letter from his pocket, and read therefrom the important statement that a branch of solid lead, 14 in. thick, had been cut, Capt. Francis adding his congratulations that Mr. Maitland had been so fortunate as to purchase—here the reading ended, Mr. Maitland had been so fortunate as to purchase—here the reading ended, Mr. Maitland had been so fortunate as to purchase—here the reading ended, Mr. Maitland remarking that it was private. Did the above important statement ever appear in the reports open to all the shareholders? Perhaps I may have overlooked it, but although I read the subsequent reports with some attention, at least, I did not observe it. As the purser and secretary of the adventurers in this mine, of course Mr. Maitland lost no time in sending Capt. Francis a copy of the resolution passed at the meeting referred to?

Of Capt, Henry Francis's professional abilities as a miner I know nothing, but I will admit that I am rather pleased than otherwise with the mode in which he has worked this mine. Anything I have said about his letters has been for his good, and it is a matter which he can easily rectify, by discontinuing to write information on the mine to individual adventurers. I have no

WHEAL SAMSON CONSOLS.

Sir.—In reply to your announcement, that you have received various inquiries relative to the character of this mine, as to its being conducted in conformity with the Cost-book System, and especially as to the constitution of its company, questioning the possibility of their carrying out the arrangement announced in the prospectus—viz.: that there shall be no liabilities, no calls, and no forfeiture of shares—I beg to hand you the following particulars:—

The Wheel Saves—Consols is a mine purpos which the amount of needful ex-

nonneed in the prospectures viz.: I that there simil to be inlamines, including an of orfeiture of shares—I beg to hand you the following particulars:—

The Wheal Samson Consols is a mine upon which the amount of needful expenditure, to bring it into a paying position, can be more closely estimated than any other which has ever come under my notice. The mine is situated in an estate which is bounded by the Bristol Channel. The lode which runs through the estate is from 6 to 7 ft. wide, and where it has been opened on the back presents a gossan of the richest description, carrying spots of copper and gold, and strings of silver. The lode splits up on coming towards the shore into various branches, in consequence of a piece of hard ground, and the footwalls of the outermost branches form the promontories of the bay. All the branches which have been tested carry ore of a very rich description up to about 10 fms. from the surface. One of the branches has been driven upon for some distance from the face of the cliff; it carries ore throughout, and occasionally widens into pockets, or bunches, from which parcels of ores have been returned of a very rich quality for gold, silver, and copper. A drivage of several fathoms has been made on this branch, and a small parcel of ores were returned, of which the average assay was 95 per cent. copper, 340 czs. of silver, 11 dus. 12 grs. of gold to the ton; but the main lode having then been discovered, and it being ascertained that at a distance of about 50 fms. inland all the branches unite, and form one continuous lode, operations on the branch were discontinued, with the intention of driving the shortest course to the main lode; and it has since been determined to provide a sufficient capital to work the mine effectually, by the sale of a portion of its shares. From the situation of the mine,

ede is completely dry above the high-water level, and all the necessary are of working to that depth are embraced in the simple operations of driv-from the face of the cliff, on the main branch, to the junction, and after-ts on the lode. A succession of levels can be taken up—the lowest from abore would give backs of about 60 or 70 fma.; the mine is, therefore, ca-le of being put in full operation without even the expense of sinking shafts, of execting any machinery.

ing from the face of the cliff, on the main branch, to the junction, and afterwards on the lode. A succession of levels can be taken up—the lowest from the shore would give backs of shout 80 or 70 fms.; the mine is, therefore, capable of being put in full operation without even the expense of sinking shafts, or of erecting any mandinery.

It appears very probable, from the results obtained in the drivings already made, that a course of ere will be obtained on reschung the junction of the forenches, even at the 10 fm. level (which would be reached at a very trifling cost); but it has been estimated that to arrive at that point in the despeat level would not require an outlay of above 10002 or 12002. In order, however, fully to provide for working the mine, it has been decided that 2500 shares shall be mediately sold, at 12 per share; that the whole of such sum shall be paid into the bankers of the company; that such shall provide the working capital for 18 months; and that at the expiration of 12 months 2500 other shares shall be sold at the best market price, the original purchasers of the first-named 2500 shares having the pre-emption of taking share for share at the present price of 14, notwithstanding any advance of value which might have arisen from the outlay of the first 2500. The constitution of the mine places all power in the hands of the shareholders, who are to meet every two months, to decide upon the works to be conducted during the two ensuing months. An estimate of the coasts is to be made; the amount of cash required is to be placed in the hands of the purser; he is required to pay cash for all materials, to pay wages monthly, and no debt, or liability, is to be contracted on the mine.

Provision is thus made to ensure to the purchasers of shares that the 11 per share first adventured is all that can possibly be risked. The mine offers the most encouraging prospects in the combination of a well-defined lode of unparalleled richness, with the most favourable features for working at a chaper rate

ON THE MANAGEMENT OF MINES.

ON THE MANAGEMENT OF MINES.

SIR,—I noticed the letter of "Matthew Mundic," in last week's Journal; and I must say I was a little surprised at it, because he seems to think all the fault of not making the mines prosperous lies with the directors, where the management is in London. I do not know "Matthew Mundic," but I cannot think he is justified in many of his assertions; because it is a notorious fact that the directors in London, previous to engaging captains or pursers, always demand, and obtain, the very best of recommendations—testimonials, indeed, that any merchant would accept. But what has been the consequence? I myself have been connected with mining adventures for some years—generally, I regret to say, at a heavy loss; and, when an inquiry is made, we always find our loss has occurred through "the fraudulent proceedings of the pursers," or "the stapid fools of captains," by which mines, that are well known to be rich, have never yet paid a penny dividend, but ought to have done so many years ago. It is, Mr. Editor, most unfair and false to have statements such as those of "Matthew Mundio" thrown at London directors, and shareholders too, are most vitely juggled by the Cornish and Devonshire pursers and captains—amongst whom, as was remarked, at a meeting last week, "the most direct and wilful — are to be found, and to a greater extent, than in any other county in all England."

What I recommend, Mr. Editor, is the establishment of mining schools, together with an Act of Parliament, compelling every mine proprietor, whether

county in all England."

Are to be found, and to a greater extent, than in any other What I recommend, Mr. Editor, is the establishment of mining schools, together with an Act of Parliament, compelling every mine propristor, whether coal, iron, copper, tin, mundic, ochre, spelter, or any other kind of metal whatever, to send to a national office a drawing of the state of their workings every year, and also giving the public the opportunity of inquiring about any mino upon a small payment. Mining operations are often necessarily very tedious and expensive; therefore the men to whom their management is entrusted should be proved efficient, or they become an injury rather than a benefit. They ought to be possessed of first-rate knowledge, or they are worse than useless; but such, I am sorry to say, is not the faculty possessed by many who are rated either Cornish or Devonahire captains at the present time; if it were so, the position of many mine proprietors, in London and elsewhere, would be very different at the present time to what it is.

D. Bodkin.

THE "PEEP" INTO THE "COST-BOOK."

a monthly or hi-monthly meeting of advonturers, at which the monthly costs, fand statement of all liabilities or assets be exhibited, when the advonturers either subscrib their quots of costs, or divide the gain, in the swate of profit. As he such intention appears to exist, or is provided for, in W—— L——, again I about declare that this miss as at present conducted, is without the pale of cost-book mining. To your other questions, Nos. 2 and 5, I will, for the sake of brevity, reply generally——.

That where the mine is and conducted on the Cost-book Principles, and where its proceedings are not checked by the monthly meetings of shareholders, and the bi-monthly production of the accounts, all irregularities (to speakin the mideat terms) are possible and that it is practicable to dispose of, or to endeavour to sell, the promoters free slave at M., previous to the complete formation of the company; and also for those same promoters, as managers, to full back upon the other portion of the 3000 shares, at 10s. pe share, if undisposed of. The only way by which this can be tested, is by your calling one more at the office of the company, and an insight into their Cost-book, and the list of the charcholders for the whole of the shares into which the company, or realize the adventure, is divided.

share, if undisposed of. Another, and by demanding an insight into their Concounts, and the list of the shareholders for the whole of the shares into which the company, or rather the adventure, is divided.

We may now safely leare W.— L.— to her real merits, and some fair portion of prospects; but I will tell you, in strict confidence, my dear Paul, that there are here-abouts shares to be had at divers prices, varying from one third of your offer down to a decimal part above the original issues, and that one or more hundred shares may be picked up to manifest advantage. Besides, we have been privately assured that the "Greek Question" has been nearly settled, and that there has been a "break-up" in the W.— L.— Government! but whether for better or for worse, I cannot determine, since the expenditure of capital does not increase in this direction, notwithstanding the sales of shares at such commanding prices.

Until "honor'd with your commands to survey and report" (as quoted in some more recent adventures of the same kind), I beg to direct your attention, friend Paul, to all our Wheal Marias, Sophias, Emmas, Emilys, Janes, and Marys, with many more pretty misses, of divers denominations, and in various directions; some presenting us with sweets as well as beauty, and claiming to be united with us. In the Mining Journal you will find a tolerable list for your exemptifications, beginning with "Abergwessin," down to "Wheal Vyysan," to which you exanot do better than apply your glasses, and to direct your enquiring viaits. Apropos—where are the so long-promised dividends of the former ?—Philo-Pax: Callingon, May 14.

P.S. It has been whispered here that only one-third part of the 3000 public shares in

P.S. It has been whispered here that only one-third part of the 3000 public shares in W— L— have been taken up. This is from good authority.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ALFRED CONSOLS.—The engine-shaft is just commenced sinking under the 70 fm. level; the lode in the east end of the said shaft is 5ft. wide, and in the west end 23ft. wide, containing a great quantity of mundic and some copper ore. The 70 fm. level is extended nearly 9 fms. east of the said shaft, and the lode in the present end is about 6 it. wide, all good for copper ore, and worth from 60f. to 70f. per fm.; from the appearance I think eight men will break 20 tons this week, as the lode is now fairer than I have ever seen it. No doubt we shall be able to resume the sinking of the winze under the 60 fm. level in a day or two, as the water is sinking under the level. In driving the 60 fm. level, east of the engine-shaft, it has intersected a small cross-course, beyond which there is some water, which we think is favourable. There is no change to notice in any other of our tutwork operations since the last report. The tribute pitches are looking well.

ALLT-Y-CRIB (CHE TALYHONT MINE).—This is a great silver-lead deposit, extending, within the sett, through the mountain of All-Y-Crib, east and west, for more than a mile in length. It commences at the village of Talybont, which abuts on the eastern foot of the hill; and the old workings, which are traesable over the summit, and down the western slope, clearly show that it has been worked by the ancient miners as deep as their imperfect machinery would admit; but there is still left a back of at least 80 fms. of unwrought and wary rich ore ground, as proved on the surface, for more than half a mile long, west of the end of the present deep adit. The situation of the deep adit, and the shipping port is distant only four miles—rendering the cost of earliage, usually an important item, a mere trifle in this instance. The water-power also, which is limuediately available for driving machinery, is usuarpaseed by any in the country—the river Lery passing within 40 yards of the mouth of the deep adit. About 250 years ago, operations, vigorous for the period

and that a very successful issue must be the result of the speculation.

BARRISTOWN.—The lode in the 30 fm. level end east is without alteration—about 18 in. wide, well mixed with lead. The lode in the bottom stopes, behind this od, looks better than for some days past, and will now produce, near the winze, about certs. of lead per fm. In the winze sinking under this level, now down between 9 and of fms., there is a good branch of lead, about from 2 to 3 in. wide, and looking pretty retular. The lode lately cut in the 30 fm. level end, west of the silde, is very promising ixed with lead. We shall cut the lode in the 40 fm. level in a few days. The 26 fm wel end east is producing about 4 cwits. of lead per fm. to the cast of the alide.

level end east is producing about 4 cwts. Of lead per im. to the cast of the side.
BEDFORD UNITED,—In the 115 fm. level south the ground is without alteration. We have reached the capels of the lode in the 103 fm. level, which are letting down a large stream of water, and consequently are troublesome to get through. The stopes in the back of the level, west of Burley's winze, are worth 15t, per fm. In Andrew's winze, in this level, the lode is 2 ft. wide, producing saving work. We continue to drive by the side of the lode in the 70 fm. level east is without alteration, producing good saving work—a very promising lode.

east is without alteration, producing good saving work—a very promising lode.

BRYN-ARIAN.—The lods in the engine-shaft is equally as good as when hist reported, yielding about 15 cwts of ore per fin. The 10 fm. level, east of the engine-shaft, is in a large lode, with small branches of ore. There is no alteration in the cross-cut north of the 10 fm. level, west of the shaft, which is not driven more than 4 ft. The stope in the bottom of the adit level east is much as usual, yielding from 12 to 15 cwts. of ore per fm. The stope under the adit level, west of the engine-shaft, is producing 15 tons of ore per fm.

tons of ore per fm.

CALLINGTON.— The lode in the 125 fm. level north is about 9 inches wide, with spots of ore. The lode in the 125 fm. level south is 8 inches wide, producing about 3 cwts. of silver-lead ore per fm. In the winze sinking below the 100 fm level south the lode is large, yielding work of a course quality. The diagonal shaft, sinking below the 100 fm. level, is now down 7 fms, ground more favorable for siaking. In the 112 fm. level north, at the south mine, we are opening ground of a high tribute character. In the winze sinking below the 112 fm. level south we are opening tribute ground. At Kelly Bray, in the past forthqift we have been sinking this shaft by 12 men, at 111. per fm., but the water being very quick, we have commenced this day to fix a new sinking lift, which we hope to complete by Sauraday next. We sampled this day, computed 43 tons of silver-lead ore, samples of which are forwarded to the different smelters as usual.

of silver-lead ore, samples of which are forwarded to the different smelters as usual.

COURT GRANGE.—Our prospects are very flattering. The eastern end is worth 15 l. per fm.; the sink eastward of this end is now down 10 fathoms under the 16 fm. level; it has been sunk through a good course of ore all the way, and is now looking quite as well as it has ever done. Had we another 30-ff. wheel, which could be erected for drawing, we could return from 450l. to 500l. worth of ore monthly, and leave 1800l. per annum profit, or searly 30 per cent. on the pad-up capital, and I should advise this being done as soon as possible. The engine-shaft at Penyeefn, and the shaft at Lletynhen are looking and sinking as well as we could have expected.

DEVON AND COURTENAY.—The ground in the engine-shaft is without alteration; the lode in it profinces occasionally good stones of ore.—There is no
hadron in the 50 end. The lode is the bottom of the adit is still orey, but a little harder,
with more water. There is no alteration to notice in any other of the pitches.

change in the och discrete the control of the discrete and control of the pickes.

EAST TAMAR CONSOLS.—We yesterday sampled a parcel of ore, computed at 70 tons; samples have been sent to the different companies, and you will receive their tenders on or before the 7tt instant. Our assayers make the produce 15 for lead, and 24 oxs. for allver. The produce of the last parcel was 144, and 24 oxs. I am happy to say, that our shart is down 11 fms. below the 80, and we have commenced driving in favourable ground. The lode in the 90 end south is somewhat improved. In the 60 end north we have a good overy lode, and so also in the 26 end, north from Church-lane shaft. In other places the re is no alteration to notice. Guillett's engine-shaft is cleared to about 60 fms. from surface, at which depth we are fixing the second plunger-lift, and have the advantage of being free from water; the lode is entirely gone from both ends of the shaft and for some distance from it. At Guillett's whim-shaft the whim is erected, and the shaft cleared for 15 fms. from surface. Caroline's shaft is sunk about 4 fms. below the 11 fm. level, below addit. There is a very promising iode in the bottom of the shaft, poducing some good work, and in very easy ground.

ESGARI LLEE.—I cannot speak of any alteration in the caunter lode in

ESGAIR LLEE.—I cannot speak of any alteration in the caunter lode in the deep adit west of the junction, since my last; the caunter lode in the 12 fm. level, cast from surface, is improved sincemy last, and will now yield from 10 to 15 cwts. of ore per fm.; the same lode, in the winze sinking under this level, is looking quite as promising as last reported, yielding about 10 cwts. of ore per fm. The lode in the stopes in the bottom of the shallow adit, west of Morgan's winze, is looking very promising, and will, on an average, yield from 15 to 20 cwts. of ore per fm. We are now waiting the arrival of the segments of the water-wheel.

of the segments of the water-wheel.

HEIGNSTON DOWN CONSOLS.—The lode in the 35 fm. level, east of the cross-cut, is 4 ft. wide, 2 ft. of which is good saving work, of superior quality ore. The cross-cut south in this level is much as last reported on. The lode in the 45 fm. level, east of the winze, is 2 ft. 6 in. wide, producing occasional stones of copper ore, in gossan of the best description. There is no alteration in the cross-cut south of this level.

HERODSFOOT.—The engins-shaft is sunk 7 fms. below the 117 fm. level; the lode is large and kindly, producing good stones of ore. The 117 fathom morth end is driving by the side of the lode, at less other in the lode is targe and kindly, producing good stones of ore. The 117 fathom morth end is driving by the side of the lode, and the stopes yielding 8 cwts. of ore per fm. The lode in the 106 north end is a foot wide, producing stones of lead; the stopes in the back are yielding, on an average, 6 cwts per fm.; the winze sinking in the bottom of this level is down 8 fms. by the side of the lode, in the stopes in the back are worth 6 cwts. per fathom. In the 94 south end the lode is 1 ft. wide, producing 3 cwts. of core per fm.; the stopes in the back are worth 6 cwts. per fathom.

tones of ore; the stope in this level are yielding 0 owts, per fm.; the north and in this level is stopped, having reached the alife; the stopes here yield, on an average, 7 owts, per fathorn. The 82 north is driving by the side of the lade, when less cut into the lode was poor; in the south end the lode is worth 90 owts, per fm., and the stopes, on an average, 12 owts, per fm. In the 72 south end the lode is worth 5 owts. Of ore per fm. The new shaft, in the south part of the mine, is collared up, and out down about 4 fms. and in a fair way of working. We sampled, on Thurday last, March ores, computed at 80 tons: the ore is clean and well dressed, and will, no doubt, be of full average quality.

HOLMBUSH.—The lode in the 132 fm. level, west of diagonal shaft, is 1 ft. wide, producing stones of copper ore, and isting down more water; we are purshing on this level as fast as possible, to thoroughly drain the pitch above, in order to resume its working. The lode in the 130 fm. level south is full 6 ft. wide, composed of quarts, prism, and stones of lead, opening ground that will be taken away at a moderate tribute: the ground in the 130 fm. level cross-cut south, towards the flap-jack lode, its again improved, having met with a tolerable large vagle, or sawne, in the bottom of the level, surrounded with small crystals of lead; this level is now extended to within 13 fms. of the lode, agreeable to the underlie of it, as seen in the 100; when intersected, we hope to meet with a good course of ore. No lode has been taken down in the 100 fm. level, as to f the great cross-course, on the fisp-jack lode, during the week; we have about 6 ft. of it standing, the wail of which is smooth and regular. The ske 6d, pitch, in the back of the level, is much improved since last reported upon; the other two pitches are much the same.

KIRKCUDBRIGHTSHIRE.—The water has been in at Steward's shaft all the week, in consequence of the dry weather. The lode in the 60 end west is still very large, with occasional stones of ore.

KIRKCUDBRIGHTSHIKE.—The water has been in at sewart shared the week, in consequence of the dry weather. The lode in the 62 and west is aft. wide, producing saving work for lead. The lode in the 80 and west is still very large, with occasional stones of ore.

KESWICK.—The 10 fm. level rise at Brandley is not looking quite so well as last reported. In the 20 south, 20 north, and 25 south, nothing has been done, owing to the top water not being sufficient for working the wheel to drain the mine. We have got some good ore during the week from the stope in the sait level; the sump in sait level is rather poore. At Thornthwalte, the 14 fm. sump on string is yielding very good ore; some nice ore has been got also in the 17 fm. level cross-cut on vela. The 17 fm. forehead is looking better, and the ground is easier. No alteration in the bottom level.

KINGSETT AND BEDFORD.—I am glad to inform you, that our men have made a most handsome discovery in Bedford land, driving south: the lode is about 5 ft. wide, and we save about one-half of the lode—good leady work. I lose no time to inform you, and I now expect we shall have a course of lead, from its appearance. The rest of the lodes are much the same as when you were here—looking very promising. If there is any alteration for the better, you shall hear from me as soon as possible.

MENDERSHIP A summer of the better, you shall hear from me as soon as possible, of the rise is improved very much; it appears to me we are just touching an bunch of the rise is improved very much; it appears to me we are just touching an bunch of lead; we are breaking some excellent stones of lead here, of a different nature from any we have ever before seen. The lode in the rise, near Carpenter's shaft, as a feet wide, all of which we are saving for the crusher, which will be completed in about three weeks. I hope to be able to report more fully next week.

LEWIS.—The sump men are cutting ground for bearers and cistern in the 80 fm. level, preparatory to shiking the engine-shaft east o

41. per fm.

ILWYNMALEES.—We have 18 tons of ore ready for market; and if we are so lucky as to get more water, we can easily get 30 tons of ore, and more, ore the end of this month; but I fear this very dry weather will continue, if so, it will put a stop to our dressing. The 8 fm. level west is still driving in very good ore; the stopes over the 8 fm. level, from 1 to 6 fms. west, have one of the best courses of ore in them that have seen in Cardiganshire; the stopes over the same level, from 6 to 10 fms. west of western wines, have good ore in them. With the eight men now stoping, I calculate we shall break 20 tons of ore for this month, which is equal to 2\$ tons of ore per man.

DENNANT AND CRAIGWEN Men. 11.—We have finished clearing

preak 20 tons of ore for this month, which is equal to 24 tons of ore per man. PENNANT AND CRAIGWEN.—May 11.—We have finished clearing Mytton's shaft; it is only 5 fms. deep; in going down the lode underlays more north, which is the reason that we have not cut it in the cross-cut in No.53 adit. Both the eastern and western stopes are looking well, and are improving. I expected to have heard from you about driving from No. 1 adit into the eastern shaft.

which is the reason that we have not cut it in the cross-cut in No.33 adit. Both the eastern and western stopes are looking well, and are improving. I expected to have heard from you about driving from No. I adit into the eastern shaft.

— May 18.—The lode in the eastern stope has greatly improved this week; it is also opening in the western stope; we are here opening ground from the winze, so as to put more miners on. The cross-cut in No.3 add thas not yet reached the lode. Vesterday we put up all the beams in the crushing-house; the engineer I expect daily.

SOUTH TAMAR CONSOLS.—We are progressing very favourably in sinking the engineer in the ground is easier, and the lode carries a very good leader of lead. I expect to commence driving immediately after next setting-day. In the 160 end north the lode is about 24 ft. wide, orey throughout, and producing rich work for silver; in the south end the lode is rather smaller, and not quite so free for driving, but will yield fully as much ore per fm. as before—that is, from 10 cwts. to 12 ewts. per fm. In the 90 south the lode is scarcely observable, and in disordered ground. In the 80 end south the lode appears to be improving. In other places there is no particular alteration. We are making good progress in clearing Glynn's shaft, and I expect to be down to the 10 in the course of this month. March ores are all dressed, and part of this month. Such ores are all dressed, and part of this month. Such ores are all dressed, and part of this month. Such ores are all dressed, and part of this month. Such ores are all dressed, and part of this month also, so that we shall sample early in June; the parcel will be a few tons more than the last, and I am happy to say, there is every prospect of a continual increase in the returns. SOUTH WALES MINES.—The south, or Frongoch lode, in the 12 fm. levelicast of the cross-cut, is looking more promising than when last reported; the lode is 9 ft wide, being composed principally of the best quality gossan, quarts, and slate, and pro

is much of the character of the Mary Ann lode, and composes, we have been considered and composed the composed of composed of

north in the 80 m. level. In the 70 end diving north the lode is 18 in. wide, occasionally producing small strings of orc. Our last parcel of orc, computed 84 tons, was sold to T. Somers, Eaq., at 211. 0s. 6d. per ton.

TINCROFT.—On Highburrow lode, in the 152 fathom level, east of Martins castshaft, the lode is 6 ft. wide, worth 184. per fm. In the 132 fm. level east of Martins castshaft, the lode is 4 ft. wide, worth 184. per fm. In the 132 fm. level east the lode is 5 ft. wide, worth 154. per fm. In the 130 fm. level, west of engine-shaft, the lode is 2 ft. wide, worth 164. per fm. for copper. In the 110 fm. level, driving east from Cook's Kitchen, the lode is 4 ft. wide, worth 6f. per fm. for copper. In the 110 fm. level, driving east from Cook's Kitchen, the lode is 4 ft. wide, worth 6f. per fm. for the and copper. In the visit of downight shaft, the lode is 3 ft. wide, worth 204. per fm. for this is the west end of the same level the lode is 5 ft. wide, worth 304. per fm. for the copper. Grout's lode, in the 80 fm. level west its fw. wide, worth 304. per fm. for copper in the winze-sinking below this level the lode is 5 ft. wide, worth 104. per fm. for copper in the 104 fm. level, east of chigine-shaft, the lode is 6 ft. wide, worth 404. per fm. for copper in the 104 fm. level, east of wide, worth 104. per fm. for copper in the 204 fm. for fm. for fm. for copper in the 204 fm. for fm. for fm. for copper in the 204 fm. for fm. for fm. for copper in the 204 fm. for fm. for fm. for fm. for copper in fm. for fm

48 fm. level are without alteration. Our prespects, from the improvement in the bottom level, are much better than for some time past.

TREGEAR CONSOLS (Sr. Kww).—We are sinking on the course of a newly discovered lode which underlays into Wheat Sarah lode; it is 3 ft. big, with a bright yellow gossam, underlays about 2 ft. in a fathom, and improves in depth. We are making arrangements for the crection of our engine, &c.

TRELATIONY.—At Phillips's shaft, in the 82 north, the lode is 3 ft. wide, worth 91. per fm.; we are still rising in the back of this level, as noticed last week. In the 72 south the lode is 2 feet wide, worth 31. per fm. In the winze sinking under this level, south of the shaft, the lode is 3 ft. wide, worth 181. per fm. Trelawny's shaft is down it fms. i ft. 6 in. below the 82 fathom level, and the men are now put to drive the cross-cut west to intersect the lode. In the 82 north the lode is 3 ft. wide, worth 161, per fm. in the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 4 ft. wide, worth 101, per fm. In the 72 north the lode is 1 ft. wide, worth 61, per fm. In the 80 north of Trehane, where the lode is 2 ft. wide, worth 61, per fm. In the 80, south of Smith's shaft, the lode is much the same as last reported. In the 40, north of ditto, the lode is split at present. In the stopes are as usual.

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TRELEIGH CONSOLS.—At Christoc's lode, in the 100 fm. lovel, west of Garden's shaft, the lode is 1 ft. wide, not much ore. In the 90, west of ditto, the lode is 3 ft. wide, worth 64, per fm. The 80 west on the cross-cut, on north part, is suspended for the present; the men are employed sinking a winze below this level; the lode is 3 ft. wide, worth 164, per fm. In the 70, west of Garden's, the lode is 3 ft. wide, worth 164, per fm. In the 70, west of Garden's, the lode is 3 ft. wide, worth 164, per fm. In the 90 winse below the 80 fm. level, its sinking in the country. The 40 cross-cut, south of ditto, is driving towards the middle lode; the 40, cast of ditto, is suspended for the present; the mon are employed to rise against the winze in the bottom of the 30; the lode is 2 ft. wide, worth 22, per fm. In the winze below the 30 fm. level the lode is 2 feet wide, with good stones of orc. At the middle lode, in the adit, cast of Nicholson's shaft, the lode is 18 in. wide, worth 22, per fm.

TREVILLE (SLYMELLER).—The engine—shaft is sunk about 3 fathoms through soft olvan—water very little. I hope by the end of this mouth it will be down 5 or 6 fm. The main lode, although without ora, is still looking very promising in the adit, having more spar and mundie in it. The canner lode is still in rather unsettled ground, and is looking the same as last reported, with the exception that it is now not underlaying more than 6 inches in a fm. We have levelled for the leats, and find a fall of 60 ft. for the water.

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WEST POLGOTH.—On Saturday we shipped our engine, and hope to have it on the mine by Monday next. If the new boller is completed this next week, in about three weeks we hope to have it to work. A few days since, in clearing the adit east, we met with a fine course of tin, the richest we ever saw in the mine; about 20 sacks were brought to grass, and produced nearly 1000 of the tot he 100 sack of work; it was a piece left by the ancients to support the ground; this loste being so rich accounts why they took it entirely away; the course of this seridently gone down. Our tributers are all in high spirits, and are anxious to see the engine at work; a great number of miners are daily coming here, in hopes of getting work on tribute. We think we shall be able to set at a very moderate price, even before we get to the bottom of the old workings. The western whim-shaft is nearly down to the adit; other parts of the mine are looking very well.

looking very well.

WEST WHEAL JEWEL.—In the 85 fm. level, west of Williams's crosscourse, on Wheal Jewel lode, the lode is looking kindly, producing stones of good ore. In
Treweek's winze, in the 79 fm. level, west of ditto cross-course, on the same lode, the
lode has not been taken down in the past week; when last taken down it was worth 41.

per fm. Carkeck's winze, west of ditto, is worth 20., per fm. The 57 fm. level, west of
ditto cross-course, on the same lode, is unproductive. The shallow adit level, west of
fitto shaft, on the same lode, is unproductive. The 12 fm. level, west of ditto shaft, on the same lode, is unproductive. The 12 fm. level, west of the same lode, is unproductive. In the bottom of the same level, on the
same lode, osat of ditto shaft, are worth 241. per fathom. The stopes west of Tregoning's
winze, in the same level, on the same lode, are worth 261. per fathom. These stopes are
working on tribute.

working on tribute.

WEST WHEAL VIRGIN.—Since my last report the men have been employed in making the water course for the water-wheel; they have had some deep cutings to go through, but they have made good the water course, upwards of 50 fms. withig the last five days. The carpenters and smiths are getting on with their work about the wheel, and I doubt not, by a little extra exertion, we shall go to work by the 24th June

WEST WHEAL VIRGIN:—Since my rass reports the water wheel; they have had some deep cutings to go through, but they have made good the water coarse, mywards of 50 fms. withing the last five days. The carpenters and miths are getting on with their work about the wheel, and I doubt not, by a little extra exertion, we shall go to work by the 24th June.

WHEAL BAWDEN—Our look has, in the last day or two, abown favourable indications of improvement, and yesterday some good stones of silver-lead ores were broken from it, very dimilar in character to the 10d Treburgte silver ores; and, by your permission, I will forwards few small specimens for the purpose of assay.

WHEAL BENNY.—Our operations have been confined to driving a lever 11 fms. below the adil; to prove the Benny lode, which depth will give us, as we extend coar, from 60 to 70 fms. of backs; this lode in the adil level easiward is of a highly promising character, and shall have about 10 fms. to drive in the 11 fm. level, to result that part which looks so favourable.

WHEAL PRANCO.—The lode in the 62 fm. level, east of engine-shaft, is about 3 ft. wide, composed of can, mundie, and ore, and is a very kindly lode. The 17 fm. level, east of engine-shaft, has been driven south of the former level 14 ft., through capels, in order to ascertain if the main part of the lode is not further south, but we have not found anything set; but would recome. This office it is a very promising lode. The lode in the 132 fm. level, cast of engine-shaft, is large and orey, and is a very kindly appearance, and is producing good stones of ore. We have about 5 fms. more to drive, west of Spry's shaft, to communicate with the 32 fm. level, east of the engine-shaft, is large and orey, and is a very promising lode. The lode in the 132 fm. level, east of spry complexes the complexes of the great consequence of the spring of the set of

s fms.; the strata in which the lodes are imbedded is a light blue slate, with numerous small velus passing through it, varying from 31 m. to 1 foot big, which is exceedingly favorizable to the production of mineral.

WHEAL LANGFORD—May 17.—We have commenced stoping the back for silver, and have good saving work; the end is poor at present. The lode in the winste is small, with some goosan of a promising character. We have costeaned about 10 fms. west of Malachi's shaff—cut a lode to-day, a very promising one, 4 ft. wide, composed of flookan and goosan, intersporsed with mundle. Mr. Smith and Mr. Knowies have been here, and surveyed the ground adjoining Wheal Langford. On Monday Mr. Sergeant and one of the committee are to meet them at Devonport, to arrange for the sett. This will be a great acquisition; it extends a considerable way west on the course of our lodes. This is the Wheal St. Vincent, marked in the Ordanace Survey of 1809 as Huel St. Vincent Silver Mine, which was very productive.

— May 23.—In my last I mentioned that we had opened on the back of the lode about 100 fms. west of Malachi's shaft: the lode is 4 ft. wide, of a very premising character. We this morning commenced removing some of the earth on surface, in order to commence a shaft, which will command the principal part of our workings in Wheal Langs (and.) We have atil good saving work for silver in the back of the north adic lovel; the end is without alteration. The winze, which will lay open the western breast of ground looks more favourable for silver. The draft is preparing the set west of us.

WHEAL SARAH.—On arriving here, unfortunately the water was in the bottom of the shaft, the third time I have been served this way. I saw the lode which has been hauled to surface, and it is fair promising stuff, with a fair quantity of galena; the 30 fm. level south has been driven 13 fms. in it, and it continues improving; it may be worth at present about 101, per fm., and is driving at 31. lbs. per fm., by six men. The northern end of the 30

during the remainder of the day and night.

WHEAL VINCENT.—I have commenced the survey here, but could not inspect the levels at the engine-shaft, on the north lode, in consequence of the water, but I hope to have them clear by to-morrow. The whole of the works are now on an economic scale; those on the side of Beacon-hill, at the wind machine, are suspended for the time, so as to save the expensive drainage by horse machine, and the expensive cross-cut intended for a deep adit, until the exact position and value of the eastern part of the lode is accertained by a systematic course of costeaning. This costeaning is now proceeding by two men, and I hope to see the back of the lode discovered by to-morrow. From preliming, observations, I this, the cross-cut for a deep adit would take nearly 20 fathours. by two men, and I hope to see the back of the lode discovered by to-morrow. From preliminary observations, I think the cross-cut for a deep adit would take nearly 20 fathoms further driving to cut the lode, and would cost from 164. to 204, per fm.; so the suspension is advisable any how, for the present. The northern part of the ffine will continue by men driving east, and six men driving west, and by two men in the backs, to raise the west tin stuff; the value of the lode appears to be about 71. 10s, per fm., and the cost for stoping about 21. 103, to 32, per fm., which, with the charges for dressing, &c., would leave the profitable value at 21. to 34, per fm.; this is the average of what has already been excavated. I shall report more fully on this to-morrow. The amount of tin on the floors is about 18 cwts. I have taken an inventory of all the materials, &c., on the mine, and I have commenced to make a plan of the sett, which I will hand to you, with a detailed report, as soon as possible.

FOREIGN MINES.

IMPERIAL BRAZILIAN MINING ASSOCIATION.

IMPERIAL BRAZILLAN MINING ASSOCIATION.

Bananal, March 3.—With respect to our operations here in the last 10 days nothing new has been developed. Our different works progress regularly, but I regret to say that no work for the washing-house has been obtained. The Big Fump vein, in the stopes below the 14 fm. level, although large and promising, has been derived as follows:—Stamps, 8 caz. 16 dwts.; tubs, &c., in the washing-house, I lb. 7 cas. 13 dwts.—total, 2 lbs. 4 cas. 9 dwts. By the captain's report, it will appear that Gibson's shaft is 7 fms. 4 ff. 6 in. below the 14, but it is really in the deepest point 8 fms. below that level. We are still complete masters of the water, and I have no doubt that our sinking will be continued without interruption. In driving northward of Goldsmid's nothing yet has been met with, but the character of the vein is such as to give me great hopes that something, yet will be discovered in this part of the property, where hitherto very little trials have

en made with regard to its development. We have not yet been able to effect the sinage of Thomas's shaft, so as to work on the vein in the bottom of it, but if it can done advantageously it shall be. In my opinion, however, our best and chapset way ill be to stope the ground from the back of our intended 24 fm. level; it will require a tie longer time before we can get produce from this vein, but it is decidedly the most fective way of prosecuting the mine. I am glad to inform you that the new working great arrived safely here on Tuesday; it appears to be well manufactured, and of the scription required.

will be to stope the ground from the back of our intended 3s mn. sever; it will require a little longer time before we can get produce from this vein, but it is decidedly the most effective way of prosecuting the mine. I am glad to inform you that the new working barriel arrived aslely here on Tuesday; it appears to be well mannafactured, and of the description required.

Gongo Soco.—I visited this part of your property on Tuesday last, and returned to Bananal on Thursday. I was much pleased with the progress making in the different works; but little, however, has been done to the open cutting, the people being required on other work. The regos are now in excellent repair; Goldsmid's stamps, with 10 heads, will be set to work in a day or two, and the Messrs. Tregoning will find, on their arrival, 65 stamp-heads at work, and very shortly 10 more will be added to Goldsmid's, making the whole number 76. The Great Western still continues to yield tolerably well from Bray's burrow; her produce of gold this time has been 1 lb. 2 cas. 16 dwts., the total produce from the three stamps being 6 lbs. 4 cas. 7 dwts. Our remittance this time will be upwards of 123 lbs., exclusive of duty.

[Remittance received, per packet, about 123 lbs. gold.]

LINARES MINES.—The following has been received from Mr. H. Thomas:

Linaws, May 12.—Wilson's shaft has been sinking during the week in a very good iode, and the ground being at present communicated to the third level, and for the benefit of the valuable ore ground discovered in shing it his shaft. We have found the distance between the second and third levels to be greater than we were led to expect, being about the same as betwist the first and second, or 14 fms., making the third 45 fms. from the surface. We hope to be able to take up some water in this level, and we purpose, as soon after our timber arrives as possible, to fix the plunger in the 31, and save the cost of leather and hinderances, as well as to free our working barrels for application to farther sinking. The tribute

NATIONAL BRAZILIAN MINING ASSOCIATION.

month by rs. 1990. The gold troop is appointed to start on the 12th instant. And remittance will be about 40.695 oits., after payment of the duty.

THE AUSTALIAN MINING COMPANY.

Produce of the mine from commencement:—Total 21 cwts. carted to Port Adelaide, say, 26 per cent., 305; now lying on floors ready for cartage, 18 per cent., 105; ditto not dressed, ditte, 114; halvans remaining on floors, from 10 to 12 per cent., 105; ditto not dressed, ditte, 114; halvans remaining on floors, from 10 to 12 per cent., 106; ditto not dressed, ditte, 114; halvans remaining on floors, from 10 to 12 per cent., 106—total, 1500.

**Monthly Report.—In the 50, north from Masterman's shaft, the lode has been cut through, and is 9 ft. in width, 4 ft. of which is a mixture of quartz, yellow ore, and mandic, and will improve as we drive northward into the ground over which Goad's stopes have turned out so much good over, and there is overy reason to expect that the 69 will be a good level. The 40, north from Phillips's winze, has now approached to within 11 fms. of the new shaft; the lode in this end continues to be well-defined and continuous, and in the past month has produced some good yellow ores, although not in such a quantity as to make it valuable in this level, but strongly indicating that we are well justified in pushing forward our operations into the unexplored ground going northward, for there is a fair chance of our making a more valuable discovery than we have yet made in the mine. In the past month two men have sank nearly 1 fm. in Stephen's winze, and although the water is not drained sufficiently deep, we have now put alx men on, so as to sink the sufficient of the manual to the surface of the surface of the mine, and the water is not drained sufficiently deep, we have now put alx men on, so as to sink it is a propose of ventifiation, and laying open the ore ground, and enable us to sink Masterman's, for the purpose of ventifiation, and laying open the ore ground, and enable us to sink Masterman's, so the purpose

Worthing, Feb. 11.—The water-wheel shaft is being sunk 3 fathoms, and the ground is now worth 24. per fm.; the end west is being driven 3 fms. 4 ft. 6 in., and now worth 12. per fm.; about 2 ft. behind this end we have cut a flockan, about 1 ft. wide, transmitting a small stream of water, and underlies at an angle of about 45°, and whether it is a regular cross-course remains to be proved; but, from present appearances, it looks more like a aquat, or small deposit of clay. The end south is being driven 3 fms. 1 ft., and now worth 34. 15s. per fm.; the lode in this end, 1 feel happy to say, has improved since last month, containing more spots of ore, a better matured spar, and the ground meel is tatified, which bids fair to improve in driving libt the hill, whose summit to the level of the end is, I should say, 30 fms. more or less. The air in this and the end west being bad, we have let an air shaft to sink, for the purpose of communicating with the former, 12f. is the price for the communication.

Addition: Feb. 15. We have move activities less that delining each the hill.

bad, we have let an air shaft to sink, for the purgose of communicating with the nutter, 121. Is the price for the communication.

Activities, Feb. 15.—We have much satisfaction in stating that, driving south to hill on the east lode, Middle Gully presents a decided improvement as we approach the hill; and as we are now as near as possible at the foot, we shall be anxious during the next month to ascertain the result of gaining in backs under it, as it will tend in a great measure to direct our proceedings here. You will perceive by Capt. Richard's report, that about 30 fathoms will be gained in backs, but, for which it will be necessary to drive about 120 fms. The works in this part will require our greatest care fleere follows a sketch of the locality of this part of the mine), and we have no hestation in saying, that a fair possibility exists that this working may, within the sext three months, form an interesting feature of the mine. You will keep in view that these workings are being carried on experimentally, under the recommendatie; of the visitor's report, on secount of its particular locality, and not from any favourable indications exhibiting themselves, and, therefore, they may be considered as se of are satisfactory. The water-wheel shaft is proceeding satisfactorily; but it will be some months before the result is known.

Charles Beck and John Haller, Committee of Management.

DEVON AND COURTENAY CONSOLS MINING COMPANY.

DEVON AND COURTENAY CONSOLS MINING COMPANY.

At a general meeting of adventurers, held at the mine, on the 15th inst.,—
JAMES DIAMOND, Esq., in the chair,—the statement of accounts was presented, showing—Balance against company at last meeting, 874. 4s. 7d.; March cost, as per vouchers, 1574. 4s. 10d.: April cost, as per vouchers, 1524. 6s. 5d.

—3764. 15s. 10d.—By call of 5s. on 520 shares, when all paid, 1304.: leaving balance against company, 2464. 15s. 10d.—In reference to the accounts, Mr. Rendle (the purser) states that the amount (about 1002.) for the ore sampled on the 26th March, ought to have been placed to the credit side, but which he hopes to receive in a post or two; and they will sell also about 1007. worth of ore more in about a week; this, with the call now made, will place the company in a good condition—the adventurers being determined not to get into debt.—The accounts having been examined were passed, and a call of 10s, per share made.—Fourteen applications having been received in reply to an advertisement for a captain of the mine, the testimonials were read, and Capt. Richard Rickard was appointed.—It will be proposed, at the next general meeting, to restore the number of shares to 1024, the number originally constituting the company.—The thanks of the meeting were presented to James Diamond, Esq., for his kindness in presiding on the occasion.

The following report, from Capt. R. Rickard, was read to the meeting:—

May 15.—The lode in the eagine-shat is forming a botter underlay, and is much larger—being about 3 ft. wide, with regularly-defined walls, composed of killas, peach, mundic, and copper ore. We have sunk, during the past month, 1 fm. 4 ft.; and we are now sinking at 204 per fm. The present depth of the shaft is 4 fms. 1 ft. below the 50 fm. level, which I would recommend to be continued to the 60, and then drive a level can't were a supported curry to the contract of the shaft is 4 fms. 1 ft. below the 50 fm. level, to communicate with the level above (price, 40s. per fm.), whi

MENDIP HILLS MINING COMPANY.

MENDIP HILLS MINING COMPANY.

The annual general meeting of shareholders in this company was held at the offices, Salvador House, Bishopsgate-street, on the 24th inst.

G. H. Barwell, Esq., in the chair.

After the usual preliminaries, the following report was read:—

The directors have called you together with satisfaction on this occasion, as they feel themselves more competent to form an opinion on the probable successful operations of the undertaking than at any previous meeting. It will be borne in mind that, at the last meeting, it was agreed to prepare floors at UDly and Blackmoor for dressing the slags and slimes—of which they had reason to anticipate an abundant supply; those floors have been completed, and are now in active operation, employing upwards of 150 persons. A steam-engine, with other necessary machinery, has been erected for pumping the water, raising the slags and slimes, and delivering the same at the respective floors. Convenient workshops have also been erected in the valley between the floors of Unly and Blackmoor; and the workshops, originally erected upon the hill for the mining operations, have been converted into two cottages, which are occupied by two of the workmon, whose residence upon the spot is desirable. A reverbentory furnace has also been erected at Charterhouse for reducing the slimes, and making them available. The two blast-farnaces for smelling the rough slags are worked by the steam-engine; and the whole of the smelting operations are carried on at the Charterhouse Works. For the erection and completion of these works, in order to enable the company tycorously to carry on the operations, the outlay has necessarily been expensive; but it is believed that the future returns will fully justify the same.

The accounts for the past year will be submitted, and it will be seen that the returns in lead during the present year amounts to 1201. 19s. 1d., to the end of April. It may be desirable to intimate that upwards of 500% of this sum has been realised during the first thre

death of Henry Newcome, Esq., one of the directors. Mr. Thomas Short Wright has been chosen in his place.

The following statement of accounts was then submitted:—Expenditure 50934. 19s. 4d.—By balance last meeting, 1198. 13s. 1d.; receipts for lead sold, 12014. 19s. 11d.; proceeds of call of 5s. per share, 12504.—36504. 18a: balance against company, 14434. 6s. 4d.

Mr. Fisher enquired if the works were done by contract?—The Chairman replied that they did all by contract that was possible.

A Proprietor asked if there was any chance of a regular production of lead from the mine?—The Chairman said, they were clearing away the surface earth as fast as possible, and then they would begin to work straight forward, when he had no doubt the produce would amply repay the shareholders. As they went on, instead of clearing away, they only turned the ground over, so that the amount of slags they raised might be judged of, which he hoped would be sufficient for the amount of slimes. On the 1st June they would commence smelting the May produce.

After some further conversation, the report was adopted, and a vote of thanks passed to the chairman and directors, when the meeting separated.

WEST WHEAL TREASURY MINING COMPANY.

WEST WHEAL TREASURY MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 17th inst., the statement of accounts was produced, showing—Labour cost for January, February, and March, 16261 Is. 1d.; merchants' bills, steam-whim, &c., 1099. 9s. 6d. = 26351. 10s. 7d.—By sales of ore, 2461l. 12s. 1d—leaving balance against the adventurers, 173l. 18s. 0d.; add book in debt'last account, 1482l. 19s. 7d. = 1656l. 18s. 1d. due to purser.—In pursuance of resolution of 17th of March, for disposal of 28 sheres, the purser was requested to transfer them to the purchasers—Messrs. Sandys, Vivian, and Co., 12 at 8l. per share; and to T. Field. Esq., 16 at 7l. 10s. 6d.—making 216l. 8s. to be placed to credit of adventurers at next meeting. Mr. Grylls's letter, dated April 10, demanding a portion of the dues, having been read, the meeting expressed its surprise at the application, as the 70-inch engine was erected by resolution of the adventurers solely on the promise held out to the committee by Mr. Grylls.

The following report, from Capts. W. Burgess and T. Richards, were read:—

May 17.—In reporting upon the present appearances and past expenditure, we think it proper to state that the statement of accounts laid before you this day contains 500l above the regular working cost of the mine; for instance, a steam-whim, besides additional pitwork for the 70-in. clylinder engine, including erections.

Engine Lode.—Burgess's engine-slaft is sinking below the 70 fm. level south of the lode. The 70 fm. cast has opened very good ore ground since the last meeting; the lode in the present end is worth 7l. per fm. The 60, east of Field's shaft, is worth 18l. per fm.; this level has been very productive for the last in fms. driving, and continues very good. The 50 cast is driven to Coulsen's engine-shaft, and hope it will be sauk to this level in a short time, after which the 70-in. engine, which we jare anxious to see accomplished. The 40, east of Euglished Scholars and the statement of the fine of the same shaft, and hop

RUNNAFORD COOMBE MINING COMPANY

The twelfth general meeting of shareholders was held at the Black Eagle, Woolwich, on the 23d instant.

Thomas Canham, Esq., in the chair.

The notice convening the meeting having been read, the proceedings of the last general meeting, and likewise those of the committee, were confirmed. The purser's accounts, including cost-sheets for March and April, and balance-sheet, were presented, showing—Mine cost for March, 145/. 12a.; ditto April

742. 1s. 8d.; to Mr. W. West, on account of seam-engine, 880.—10992. 13s. 8d.

—Balance in hand last account, 4572.0s. 3d.; recalved on sale of tin, 552. 1s. 5d.; calls, 4722.—9842.2s. 2d.; leaving bainnes against mine, 1152. 11s. 6d.—A call of 55-per share was made.—It was resolved, that Mr. John Taylor be engaged as the superintendent of the mining operations, and that Messrs. H. T. Lea, W. Vilcox, and James Phipps, be added to the committee.—The meeting was well attended, and passed off with much satisfaction. It is expected that the shares will be in request, on account of the tone given to the proceedings, and the unanimous opinion that the mine will soon be classed among the first of tin mines.—The following report, from Capt. T. Hooper, was read:—

May 18.—In presenting win my report, I shall endeavout to give you a detail of the proceedings at the mine. We are now in operation of casing and dividing down Morris's shaft, and putting in the footway by stx men, in order to resume sinking as early as spesible. The ground in the 16 f thom cross-cut was hard when I set last extent (6 feet), by stx men, as 120 per faithous; but it is more favourable at present, and I anticipated point will be reached in the course of 12 weeks, where I expect to discover a large deposit of the, by which the adventurers will be amply rowarded for the outlay. The cross-cut is driven from Morris's shaft shout 2 fms, and according to the present underlay of the lock in the addit level, we have about 13 fathoms more to drive. The engine continues to work well, consaming about 6 cetus of coal in 24 hours, going about five strokes per minute. I would propose to enlarge the plat at the 10 fm, lovel, as it is small at present. The cost will be about 54.

CAMBORNE CONSOLS MINING COMPANY.

CAMBORNE CONSOLS MINING COMPANY.

A special general meeting of shareholders was held at the offices, New Bridge-street, on Thursday last. We were pleased to find that the best spirit prevailed amongst the proprietors, and that the reports of the prospects of the mans by Capt. Mutthew Francis, of Goginau, and Mr. F. Daniell, the resident manager, were most encouraging. The reports themselves, and the proceedings of the meeting, are so voluminous, that we are obliged to defor their publication till next week. In the meantime, we may state that the proprietors separated with a determination to adopt the most effectual and energetic measures for developing this valuable piece of mining ground.

KIRKCUDBRIGHTSHIRE MINING COMPANY.

KIRKCUDBRIGHTSHIRE MINING COMPANY.

The quarterly meeting of adventurers was held, at the offices, on the 14th inst, when a statement of accounts was presented, showing—Balance in favour of mine, on the 12th Feb., 4514. 4s. 7d.; balance of sale of lead ore on the 1st March, 492. 0s. 10d.; lead ore sold 8th March, 4504. 12s. 6d.; ditto 7th April, 4514. 9s.; ditto 25th April, 4534. 16s.=1862. 2s. 11d.—February mine coat, 3704. 2s. 7d.; March ditto (including steam-engine, boiler, &c.), 8744. 6s. 1d.; April ditto, 49:4. 1s. 3d.=17354. 9s. 11d.; leaving balance in favour of mine, 1264. 13s.—The following report, from Capts. R. Williams and E. Bawden, was read to the meeting:—

read to the meeting:—

May 11.—We again send you our quarterly report of this mine. Our principal work for the quarter has been in extending the levels east and west through the mine, and improving the mechinery for drawing water. We have driven the 52 fm. level through to Keith's shaft, and extended it on westward 20 fms. two have also driven the 55 further west 12 fms. We now find that the ore ground extends east and west of Stewart's, in the 63 fm. level, about 35 fms., which is a very great improvement on the level above. Also the ore ground in the 30 fm. level, to the west of Keith's, extends to a length of 70 fms. There is a place of dead ground between, of about 50 fms. in length, and in the whole about 125 fms. of orey ground in the 62 and 50 fm. levels. The 50 end has been in unsettled ground all the quarter, but we have had occasionally a good stone of ore a it sead lately. The 62 end west is also very promising for ore a present, having just reached the ground. In Stewart's shaft, which we have commenced slinking again, there is a large kindly lode, with fine stones of ore through it. We have put on another crank, and a full set of rods to the new pumping wheel, and fixed a new drawing lift from the 50 to the 62 fm. level. We sunk the new shaft 74 fms., when we discovered so much water that we were compelled to stop it until we got a lift of pumps to sink it with; these arrived by the Chance, and which we have since fixed in the shaft, and attached by flat rods to the crasher wheel. We regret much that we have not been able to get a secure foundation for the engine-house. We have raised 131 tons of lead ore, and driven above 90 fms. of ground in the past quarter. Our objects at present are—to get the engine to work, sink Stewart's and the engine-shafts, and extend the 50 and 62 ends west as fast as possible.

LELANT CONSOLS MINING COMPANY.

A general meeting of shareholders was held at the mine, on the 14th inst., hen the accounts were presented, showing balance of 863l 18s. 8d. against the inc.—A call of 2l. per share was made.

when the accounts were presented, showing balance of 863L 18s. 8d. against the mine.—A call of 2L per share was made.

The following report was read to the meeting:—

May 14.—At the south mine, the 50 fm. level is this day holed to Rodd's shaft, sinking below the 40, is 2 feet wide, worth 4L per fm. This shaft being communicated to the 56 fathom Jevel will place us in a position to raise more tin, and we calculate upon a productive level in driving west of Rodd's shaft. The other levels have not discovered so much tin as we could have reasonably expected; and, being in full hopes of a good reward for the ontally upon Wheal Margaret lodes, when the water is exhausted to the 60 or 70 fm. levels, we have ventured to abandon some of our tuwork operations in the south mine.—Wheal Margaret Lodes: In forking this mine to the 36 fm. level we have found the backs of the 16, 28, and 36 fm. levels mostly wrought; but the few arches of ground indicate a good lode having been taken away by the former workers. In consequence of the old engineshaft being small, our progress has not been so rapid as it otherwise would have been; still we hope to see the bottom, or 85 fathom level, about the middle of August next, when it is highly probable that our quantity of the will have been; the first drawn from underground, which will may us for dressing it. We are driving a 16 fm. level cross-cut south of May's dipps shaft to cut the south lode, and the granite rock is most congenial for tin lodes.

TREVISKEY AND RARRIER MINING COMPANY

TREVISKEY AND BARRIER MINING COMPANY.

The usual two-monthly meeting of shareholders was held on Monday, the 20th inst., when the fellowing accounts were presented:—

TELVIOREI.		
On account of ore sold Jan. 24 (less dues)£3375 8 4		
Wheal Seton adventurers for materials	0	3
Deduct-Labour cost February and March 788 3 1		
Tribute of ore 289 1 3		
Merchants' bills, &c 292 5 1		
Tresavean adventurers. &c 201 13 7		
Income tax	15	10
Leaving profit of£ 1853	-	5
B balance in hand end of Jan		1
B Calabre in hand the of San	•	
Total£ 1945	8	6
Deduct dividend of 16% per share 1920		0
	_	_
Leaving balance in hand of£ 25	8	6
BARRIER.		
Amount of ore sold Jan. 24 (less dues) £7	14	0
Deduct-Tribute of ore February and March £5 11 1		
Tresavean adventurers, &c 0 16 3		
Income tax 0 13 9-7	1	1
Leaving profit of£ 0	19	11
Due to purset end of January	3	6
Due to parson our or outland,		
Now due to the nurser	10	7

The following report, from Capt. J. Jennings, was read to the meeting:-The following report, from Capt. J. Jennings, was read to the meeting:—

May 10.—The 322 fm. level is driven 9 fms. east of Michael's, is also 1 ft. bleg, unproductive; the lode in the 272, west of Michael's, is also 1 ft. bleg, unproductive.
The lode in the 560 east is still unproductive. The lode in the 248 is 2 ft. wide, yielding 3 tons of ore per fm.; this end is 75 fms. east of the shaft. The lode in the 236 is 2 feet wide, producing from 4 to 5 tons of ore per fm.; this end is 62 fms. east of the shaft. The lode in the winner shinking below the 236 is 1 foot big, producing 1 ton of ore per fm. The 224 is 28 fms. east of the shaft; the lode in this place is small; the winze below this level is commicsted to the 236. The 200 fm. level is 40 fms. east of the shaft, and still unproductive. The stores in the bottom of the 236 are set on tribute. We are still driving the 40 fm. level, south of Williams's old sumap-shaft, and expect to intersect the south lode about the middle of next month. We sampled 511 tons of ore on Wednesday, and expect to raise 500 tons for May and June.

WEST UNITED HILLS MINING COMPANY.

At a meeting of adventurers, held on Wednesday, the 15th instant,—F. W. Camplin, Esq., in the chair,—the accounts, having been examined and allowed it was resolved, that all adventurers in arrear of costs be sued, either by merchants or in the Stannaries Court, or both, in the most summary manner, at the discretion of the purser.—The agreement of reference, entered into by the purser with Mr. Ellery, meeting the approval of the adventurers, was sanctioned and adopted, and the purser requested to carry it through without delay; or, failing that, to take the most immediate legal steps to compel Mr. Ellery to pay up his balance due to the adventurers.—The shares in the mine, now only 222, are to be considered increased to 1110.—The steam-engine is to be forthwith erected, and the mine to be efficiently worked, for which purposes, and for paying arrears due from the adventurers to, merchants and others, a call of 10s, per share was made.—The purser was authorised to accept for the company a transfer of shares from any shareholder on payment of such portion of his calls as may be deemed advisable, and afterwards to sell and transfer such shares for the general benefit of the company.

WEST WHEAL VIRGIN MINING COMPANY.

A meeting of adventurers was held at the offices, Winchester-buildings, on Wednesday, the 18th inst., when (all the shares having been allotted) it was determined to work the sett with vigour, and to commence operations immediately. The report of the agent (Mr. Thomas Carthew) was read and approved; and, after various resolutions had been passed relative to the future management of the mine, the adventurers separated, highly gratified at their presencts of success.

WHEAL VENTON MINING COMPANY.

A meeting of adventurers was held at the offices, George-yard, Lombard-street, on Thursday, the 23d inst., when a call of 1t per share was made. The rules and regulations of the company were adopted, and resolutions that the naine be worked independent of Butterdon sett, and that the question of the steam-engine be left for the decision of the committee were passed.

WHEAL OWLES MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 17th inst., the statement of accounts for the three months ending March, was presented, showing —Tin sold, 3211. Ia.; deduction from tributers costs, 246. Ias. 4d.; received for leavings, tin, &c., 311. 12a.; 2489. Gs. 4d.—Mine costs, including returning charges, 1698. 12a.; adventure with tributers, 194l. 10a. 7d.; carriage, 105l. 2a. 4d.; lords' and bounders' dues, 56l. 4s. 8d.; merchants' bills (including coals), 682. 10s. 10d.; balance against adventurers at last account, 661l. 1s. 8d.—leaves balance now in favour of adventurers, 75l. 4s. 8d.

MINING NOTABILIA

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

COMBLAWN.—It has been definitely arranged that the steam-engine, late at Wheel Martha, purchased for the use of this mine, and erected under the superintendence of Messrs. Hocking and Loam, engineers, shall be put to work on Monday next, the 27th inst. It is erected over the old shaft, supposed to be sunk to 30 fms., and by means of flat-rods to the lower shaft (sunk 20 fms. by the present adventurers), will effectually drain the mine to a considerable depth. We learn that the purser, H. T. Smith, Esq., of Devenport, visited the mine on Monday last, accompanied by Lord Ashburton (the lord), who was well pleased with the manner in which the works, so far, have been performed. Mr. Adam Murray, jun., it is expected, will be present at the opening, as the representative of the Loudon adventurers.

CARYANKE, MINE, GWENNAE,—This mine is divided into 132 shares, on each

representative of the Loudon adventurers.

CARVANNEL MINE, GWENNAP.—This mine is divided into 132 shares, on each of which 12l. paid—present price 40l. per share, very few sellers. It gives me great pleasure to be able to announce to you, that within the last week a very important discovery has been made here. The men in sinking the engine-shaft have cut a rich course of copper ore, about 1 ft. wide. There is also a good lode in the adit. I am glad both on account of the adventurers and labourers; but more particularly for that intrepid adventurer, Mr. J. Lyle, who holds largely.

MORE PARTICULARLY for that interput accordingly and according to the moisiburgues. North Whight Voil.—I find that the mine according to the neighbourhood of Camborne have directed their attention to this highly promising sett. I saw one of them hast evening at Carn Brea, who stated that he had a good opinion of the mine, which he has inspected. It is particularly a stanniferous locality, but there are at least, I find, two copper lodes running through the sett.

but there are at least, I find, two copper lodes running through the sett.

SOUTH UNITED (PERRANWELL).—I have lately seen the manager of this mine, who showed me some of the tin taken from the old men's burrows, the most of which he informed me he found in the hedges hard by. I suppose that little has been done here within hundreds of years. Mining is still very brisk in Cornwall, but the drop in the price of tin has put a little damping effect on the minds of speculators, yet there is no ground for fear.

SILVER-LEAD ORE.—A rich mine of silver-lead ore has lately been found on the property of A. J. Gulston, Esq., Llwynberllan, in the neighbourhood of Llaudilo. This is believed to be an indication of a rich vain of silver-lead ore in the locality; and it is runnoured that an influential company is likely to undertake the working of the mine, and commence operations forthwith.

[From the Phymouth Journal.]

[From the Phymouth Journal.]

Tavistock Consols.—It will, we are certain, be interesting to all our mining friends to learn, that a strong company is being formed to work these mines—the champion lodes in which are so highly spoken of. We are informed that the intention is to crect a steam-engine, and to sink the present engine-shaft from the 44 fm. level (its present depth) to the 60, then to drive castward on its course under the large gossan, and to crosseut south to intersect the two large gossan lodes. We understand that one-third part of the undertaking is already subscribed for by parties in this locality.

Walkfoods Consols.—The trial shaft has fortunately intersected the lodes at the function, about 10 fms. under the surface, and it is quite clear that an old adit must have gone up beyond this place, as the bottom of the shaft, which is sunk at 12s. 6d, per fm., is quite day. Very good it in as been met with in this lode, which is from 18 to 20 in. whice, the matrix of the lode is very fine. On the north lode a fine arch of tin (left by the ancients) has been met with. There are no less than four adult levels driven on the course of the lodes by the old men. The works are going on very well, the weather having been much in our lavour.

in our favour.

Biach Toa and Vitters.—The lode in the 20 fm. level, west of Dunstan's shaft, is still small, but is producing good work: the ground is good for driving, and we shall soon see the junction of the lode. We have a good leader of tin in the old engine-shaft, and the ground is very favourable for sinking. We shall reach the 20 fm. level by the time mentioned in our last report. There is no alteration in the other parts of the mine.

COMPANY OF COPPER MINERS IN ENGLAND .- The bill for the resusci-COMPANY OF COFFER MINERS IN ENGLAND.—The bill for the resuscitation of this company, which has been read a second time, goes into committee on Monday next, in the House of Commons; and there is no doubt but the equitable propositions put forward by the shareholders' committee will be received, so that all legal difficulties being obviated, the company may return to their wonted activity and industry.

Mr. Jehu Hitchins has this morning left England for Lake Superior. We understand that the valuable services of Mr. Hitchins have been secured by a company, who have commissioned him to make a survey of some mineral property they have obtained in Mica Bay.

company, who have commissioned him to make a survey of some mineral property they have obtained in Mics Bay.

Historical Notices of Talyborf, Cardiganshire.—Sir Hugh Middleton, before the year 1608, when he commenced his great undertaking of supplying London with water, by bringing the New River from the Chadwell and Amwell Springs, in Hertfordshire, to the reservoir, at Islington, worked this mine, from the profits of which, with those of two others, he, in the space of five years, successively carried out that great project, by effecting what had been considered this mine, from the profits of which, with those of two others, he, in the space of five years, successively carried out that great project, by effecting what had been considered impossible, and by the eactifice of a princely fortune at the shrine of public utility. Sir Hugh Middleton was succeeded by Thomas Brishell, the friend of the great Lord Bacen, the father of inductive philosophy, under whose management the profits from this mine, and one or two others, rose superior to those of any former period, for in the short space of 11 years he amassed a fortune so enormous that, when the civil war broke out, he not only clothed the whole of King Charles's army, and relieved his necessities by a loan of 40,000l, but gave him the aid of all his miners, "converting (to use the words of Fuller, who records the fact) their mattecks into spears, and their shovels into shelds, forming them into a regiment, which he commanded in person, in defence of a cause grown to desperate for recovery." From 1642 to 1666, Bushell bublished several small tracts; in one, dated 1649, is the following notice of Ality-crib, or, as it is commonly called, Talybont. He says flust, in the monatains of Beromefloyde, Talybont, Goginan, &c, there were great quantities of silver and lead, and that he had bought those mines of Lady Middleton for 400'd down, and a like sum per annum during her intorest therein." In another pamphlet, published in 1660, speaking of the same mine, he says—

ACCIDENTS.

Explosion at Morfa Colliery, Teibach—An explosion, which excited considerable alarm until the facts were known, took place at this colliery yesterday morning. From the particulars we have gleaned, it appeared that, whilst the men were at work, a fall of earth took place, which extinguished the Davy lamp. This led to an explosion, by which six men were burnt, but, we are happy to find, not seriously. One poor fellow, however, had his back broken by the fall.—Combrian of this day.

Merthyr.—W. Richards was killed in one of the Plymonth pits by a fall of rubbish.

six men were burnt, but, we are happy to find, not seriously. One poor fellow, however, had his back broken by the fall.—Cumbrian of This day.

Merthyr.—W. Richards was killed in one of the Plymouth pits by a fall of rubbiah.

Oldham.—G. Ashworth was killed by an explosion of fire-damp in Rhode Bank Pit. It appeared by evidence at the inquest, that no blame was to be attached to the proprietors of the pit, or to the underlooker; but the accident was "ving to the want of proper cantion on this part of the deceased.

Letes Mines.—As J. Pascoe, a mason, was following his employe, he was suddenly selected with a fit of coughing, and directly afterwards brought up a large quantity of blood, A companion went to his assistance, but the poor fellow had only just time to say that "he should not be long before he expired."

Dudley.—A boy, named Bunce, engaged as "hanger-on" down a pit connected with Scott's Green Colliery, had a miraculous escape from a frightful death. It appears the usual signal was given to the engine-man to holds a loaded skip out the pit, whilch was stated to be 120 yards deep, when the chain called the "tacklers" accidentally caught the lad's thumb, by which he was safely brought out of the pit, without sustaining further injury than to the thumb in question, which was somewhat contused by the pressure of the chain. The occurrence produced no small degree of excitement and surprise among those on the pit bank.—Weterhampton Chronicle.

Botton.—W. Martin was killed by an explosion of fire-damp at Smith Fold Colliery,

among those on the pit bank.— were ampined considered and a Smith Fold Colliery, Bolton.—W. Mariin was killed by an explosion of fire-damp at Smith Fold Colliery, Little Hulton, belonging to Messrs. Harrop and Co. The poor fellow had been working all night, and about four o'clock incautionaly went into another working, to get some refrealment, when his candle ignited some accumulated fire-damp, and caused the explosion. A companion was also sadly injured. The accident was not known until the men went to work—the engineer being absent.

YORK, NEWCASTLE, AND BERWICK RAILWAY.—The directors intend opening the great bridge over the Tweed at Berwick in June, all that is now necessary to complete it being the laying of the rails for the trains.

GLOUCESTER AND DRAN FOREST.—The works upon this line are proceeding with vigour, in order to have it ready for opening simultaneously with the South Wales line. It is proposed to convert the Monmouthshire Railway into a locomotive line, which will furnish another important mineral and passenger feeder to the South Wales and Forest of Dean lines.

MIDLAND RAILWAY.—This company are about to contract for working their Leeds and Bradford and Bristol and Birmingham lines.

OXFORD, WORGESTER, AND WOLVERHAMPTON.—Mr Brunel, the engineer of this company, is understood to have submitted to the directors a guaranteed estimate of the cost of constructing the entire line within 20 months, at less than 20,0007. per mile.

LATEST CURRENT PRICES OF METALS.

The second of the second of the second of	THE RESIDENCE OF CARLETY AND ADDRESS OF THE OWN
Bar, bolt, & aquare, London	Tile
Stanoroshire bars, at the works 5 10—6 0 Pigs, in Stanfordshire 4 15—5 Rails 4 15—5 Chairs 4 0 0 Swedish 12 0—12 5 CCND 2 PSI Gourieff Archange	Refined
FOREIGN STEEL. c Swedish keg	Plates, warehoused per ton 14 15—15 0 Ditto, to arrive

Therms.—a, 6 months, or $2\frac{1}{2}$ per cent. dis.; b, ditto; c, ditto; d, 6 months, or 3p dia; c, 6 months, or $2\frac{1}{2}$ per cent. dis.; f, ditto; b, ditto; h, ditto; t, ditto; k, net l, 0 months, or 3p. ct. dis.; m, net each; n, 3 months, or $1\frac{1}{2}p$. c. dis.; o, ditto, $1\frac{1}{2}$ e Cold-blast, free on board in Wales. REMARKS.—The Scotch pig-iron market has shown some activity to-day; and there to buyers to a large extent at is, per ton above the early part of the week.

LIVERPOOL, Max 22.—In manufactured iron of all descriptions the market is dull, an I prices remain the same as last noticed. For Welsh bars the demand has been somewhat more active, but without affecting prices. In pig-iron we have to notice the realisation of our anticipations of last week. The speculative feeling having saddenly disappeared, and the accounts from America (our only foreign market now) being unusually dull, we cannot see anything whatever to support the market. Sales have within the last day or two been made at 43s.; but, at this figure, buyers are very shy, and await lower prices still—and will not, we think, have to wait long. In tin-plates the demand is rather slacker, though the price remains firm.

MESSINA SULPHUR TRADE.

MESSINA SULPHUR TRADE.

The accounts from Messina, of the 2d inst., gives the following account of the sulphur trade:—"The prices for readily disposable goods have remained firm. Besides, as but extremely little came in for sale, the demand continued, and the few holders maintained their demands; this is especially the case for deliveries until the end of July and August, whereas, for deliveries in the autumn and winter, a marked difference shows itself. Some business took place in the second best quality, to deliver at Terranova (one of the most dangerous lading places), to be delivered from October to January, 1851, at 19½ tari, prime coas without duty, with one-third cash down. The same quality costs 10 gran per cantar more at Licata. The mines are meanwhile being closely worked; owners will be compelled to effect their sales for delivery with one-third or one-half cash down, and prices may, therefore, by-and-bye fall, although perhaps this year only slightly, as the labourers' pay, the transport, and the hire of the mines, now costs much more than in ordinary years; the article, therefore, costs more, and holders will scarcely consent to sell at a loss, and as the consumption also largely increases, particularly in North America and Germany.

France	266,287 Italy and Austria 17,190	
Holland and Belgium	44,019 Portugal 4,500	
Prussia and Hamburg	60,250 Spain 2,000	
Russia	16,680	
Total	1,062,196	
"In consequence of the political d	isturbances, far less than before went to France. (n
the 1st Jan., the following stock exis	sted at the shipping places : -	
C	antars. Cantars	da.
Licata		
Girpenti	195.000 Steullens	

Girgenti 235,000 Siculiana 3,000
Catania 26,446 Palermo 5,000
Which, at present, are almost all shipped; whereas about 275,350 cantars lie ready in the mines, which, by degrees, will be brought to the coast as fast as the means of conveyance will permit."

Bew Batents.

SPECIFICATION ENROLLED DURING THE PAST WEEK.

SPECIFICATION ENROLLED DURING THE PAST WEEK.

Gronge Edmond Donstrhorfe, Leeds, and James Minnes, Bradford, York: For improvements in apparatus for stopping steam-engines, and other first movers. The object of this invention is to enable the superintendent of machinery, situated at a distance from the steam-engine, or other first mover, to stop its action and momentum instantaneously, when required, without the necessity of communicating with the engineer. For this purpose the patentees propose to employ, in low-pressure engines, a pipe which opens into the condenser at bottom, and communicates with the atmosphere at top. This pipe is opened and closed by means of a cock, placed in the upper part of it, on the spindle of which there is affixed a weighted lever. When the pipe is closed, and a vacuum established in the condenser for the working of the engine, the weighted end of the lever is supported in a horizontal line by a sliding plate on which the weight rest. The other end of the sliding plate is attached to a bail crank lever to which wires are connected, which are carried into the different apartments, where the machines are placed, and there provided with pulls; so that when it is required suidenly to stop the engine, the person watching the machine will only have to move the pull near him, which will cause the sliding plate to be withdrawn from under the weighted end of the lever, which will then fall down into a vertical position, and opens the condenser to the atmosphere, whereby the vacuum will be destroyed and the machine instanty stopped. To prevent the engine being stopped without occasion or from wantonness, and to lead to the detection of the party doing so, there is a ratchet wheel, affixed upon the spindle of each pull, into which takes a spring click, whereby the pull will be prevented from returning to its first position until the click has been removed from the tech. The ratchet wheel and spring click are enclosed in a box or case, to which the order will have honey being into the odd of w

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

W. E. Newton, of Chancery-lane, civil engineer, for improvementilating buildings. (Communication.) R. Cotgr H. Cofgreave, or received.

Apparatus to be used in draining land.

H. C. Hurry, of Manchester, civil engineer, for certain improvements in the method of inbelgating machinery.

H. C. Hurry, or Manchester, crui engineer, for certain improvements in the method of labricating machinery.

J. F. M. Dameak, of Paris, for certain improvements in reflectors for luminaries.

S. Pincoffs, of Manchester, merchant, for certain improvements in the dyeing process in calleo printing and dyeing, which improvements are also applicable to other processes in calleo, printing and dyeing. W. Palmer, of 14, Cottage Grove, Bow-road, Middlesex, gentleman, for improvements in the manufacture of candids and candiewick, and in the machinery applicable to such matters.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

Capper and Waters, Regent-street, combined Jacket and shirt. (Carlisle Jacket.)
W. Baddeley, Alfred-street, Jalington, portable fire-engine ("Every man his own renam.")—**Acchanics** Magazine.

RAILWAYS AND EXTRAMURAL INTERMENT.—It is proposed by a bill, brought in by Sir Edward Macnaghten, Mr. Gwyn, and Mr. Lacy, for promoting extramural interments, that incorporated railway companies may establish cemetrries not more than a quarter of a mile from the railway, to be consecrated, and planted with forest trees; land to be purchased with the sanction of the railway commissioners; the ordinary passenger rates to be charged to those going to and from the cemetry, no body to be interred above another within a period of 50 years; and the required capital to be raised by issue of bonds or debentures, not exceeding, on the whole, a sum equal to 2l. per cent. of the capital of the company.

Current Prices of Stocks, Shares, & Metals

Belgian, 44 por Cent., — Dutch, 22 per Cent., 565 4 Brazilian, 5 per Cent., 575 Chilian, 6 per Cent., 98 99 Mexican 5 per Cent., 28 Cent., 314 304 Russian, 44 per Cent., 74 4 Spanish, 5 per Cent., 774 2 Ditto 3 per Cent., 374 2 nuities, 54 ock, 104 per Cent., 267 ock, 104 per Cent., 267

MINES.—The mining share market continues much the sa last week; but there is every reason to hope for an early improvement. There are inquiries for Devon Great Consols, Wheal Margaret, South Frances, and other of our leading mines.

In Wheal Golden shares, there have been several transactions at our pre-

Frances, and other of our leading mines.

In Wheal Golden shares, there have been several transactions at our present quotations, and the prospects are considered highly encouraging.

The directors of the Devon Great Consols Mining Company, at the weekly board, held yesterday, declared a dividend of 9216/L, being 91. per share, from profits arising from sales of copper ores raised in January and February, after payment of which there remains in hand a balance of 20,409/L 16s. 10d., consisting of cash, ore bills not at maturity, and Exchequer bills, applicable to the general purposes of the company.

The usual bi-monthly meeting of Treviskey and Barrier adventurers was held on Monday last, when the statement of accounts presented showed a profit, on Treviskey, of 1853/L 4s. 5d. for the two months. A dividend of 16/L per share was declared, leaving to credit of next account 25/L 8s. 6d., with the ore bills coming due: 511 tons of copper ore were sampled on the 15th, and about the same is expected for May and June.

At a meeting of adventurers in Great Work Mine, the quarterly statement of accounts for January, February, and March, was presented, showing—Balance, end of December, 392/L 6s. 8d.; ores sold, 3563/L 4s.; sale of materials, 157/L 6s. 2d.—4114/L 16s. 10d.—To costs, lords' dues, &c., 2585/L 2s.—A dividend of 10/L per share was declared: leaving balance in favour of adventurers, 339/L 14s. 10d.

At Lelant Consols meeting, the accounts for the three months, ending March, showed a balance of 868/L 18s. 8d. against the mine, to discharge which a call of 2/L per share was made. The new engine is at work, and every preparation is being made to extend several levels towards some interesting points. Before the next meeting it is expected that some important discoveries will be made.

At a meeting of West United Hills adventurers, after passing the accounts, it was resolved, that the engine be forthwith erected; that the mine be efficiently worked; and that the shares be increased from 222 to 1110—on which number

March and April, 1355t. 3s. 1d.; leaving balance in hand, 1406t. 18s. 7d. It is expected that a dividend of 2t. 10s. per share will be declared on the 31st instant.

The usual two-monthly meeting of Wheal Buller adventurers took place on Tuceday last, when the accounts were presented, showing—Balance from the last account, 498t. 4s.; ores sold (less dues), 3103t. 2s. 11d. = 3601t. 6s. 11d.—To costs and merchants bills for March and April, 772t. 9s. 2d.—A dividend of 20t. per share was declared: leaving balance in favour of adventurers, 268t. 17s. 9d.

At the Runnaford Coombe meeting, the accounts showed a balance against the mine of 115t. 11s. 6d. A call of 5s. per share was made. The shareholders were in high spirits from their represented good prospects, and in having secured the services of Mr. John Taylor, to superintend the operations at the mine.

At the quarterly meeting of Wheal Owles adventurers, the statement of accounts showed a balance in favour of the company of 75t. 4s. 8d.; whilst at the former account the sum of 661t. 1s. 3d. stood against the mine.

At Devon and Courtenay general meeting, a call of 10s. per share was made—the balance against the mine being 246t. 15s. 10d. When the ore bill for March ores is paid, and April ores sold, and the present call received, the mine will be in a more favourable position.

Mendip Hills annual meeting was held yesterday, when a call of 5s. per share was made—the particulars appear in another column.

At the quarterly meeting of Kirkcudbrightshire adventurers, the accounts showed balance in favour of mine, 126t. 13s. The report stated that 131 tons of ore had been raised, and 90 fathoms of ground driven in the quarter.

Shares in the following mines have changed hands since our last:—De-

in the quarter. Shares in the

in the quarter.

Shares in the following mines have changed hands since our last:—Devon Great Consols, South Tolgus, Condurrow, Grambler and St. Aubyn, Herodsfoot, Tincroft, Bedford United, Heignston Downs, Trethevy (copper), Daren, Mary Ann, Tremayne, Alfred Consols, Wheal Longmaid, South Plain Wood, Moditonham Consols, Trehane, Penzance Consols, Wheal Golden, Stray Park, Treviskey and Barrier, West Wheal Treasury, Wheal Franco, West Polgooth, Drake Walls, &c.

Wheal Golden, Stray Park, Treviskey and Barrier, West Wheal Treasury, Wheal Franco, West Polgooth, Drake Walls, &c.

In Foreign Mines, there have not been many transactions; some business however, has been done in Imperial Brazilian, St. John del Rey, National Brazilian, Santiago, Cobre, Linares, &c.

Despatches have been received from the Imperial Brazilian Mines to the 3d March, and a remittance of 123 lbs. of gold. There is nothing of importance to notice, but the operations are going on satisfactorily.

The National Brazilian Mines advices are to March 5. The produce from Cocaes, from the 24th February to 5th March is—mks. 4 6 1 17. By the completion of a sink, they are enabled to make more progress towards a point where a large deposit of gold is anticipated.

The St. John del Rey letters are to the 9th of March, furnishing the returns for February, by which we find the produce to be 21,364 oitavas, from 4977 tons of ore, giving a profit for that month of 2754l. 16, 9d. A remittance of 40,695 oits, was to have left the mines for Rio on the 12th. During the last 10 days of the month, a considerable improvement in the returns had taken place, which we learn continues up to date of despatch.

The Australian Mining Company have received their usual monthly report, advising the progress of the operations, and that the engine would, in all probability, commence working in April. The lode in the 50, north of Masterman's shaft, was producing 3 tons of ore per fm.; other points were looking very promising. The report states that 1500 tons of copper ore had been raised above the adit; and, with the assistance of the engine, they hoped their expectations would be realised in depth.

The accounts received by the Worthing Company, by the Overland Mail, may be considered very important. The reports by the company's professional agents are highly encouraging, but by far the most favourable intelligence received from Australia, relative to the geological features of that country in connection with mining prospects, is the

THE ELECTRIC LIGHT .- We have reason to believe that one of the grandest discoveries of the age, in connection with electricity, has just been effected by Mr. Staite. Efforts are being made to secure a patent, with as little delay as possible,—when we shall be enabled to lay before our readers the particulars of the invention.

LONDON AND NORTH-WESTEIN RAILWAY.—As the half-year draws towards a close, considerable anxiety is naturally felt as to the amount of dividend which
is likely to be paid by this, the largest of all railway companies. In order to enable our
readers to form the state of the state of the state of the state of the company
(which, by-the-byo, show. From the published weekly traffic returns of the company
(which, by-the-byo, excludes the traffic of various attained in the returns of the company
(which, by-the-byo, show. From the published weekly traffic returns of the company
(which, by-the-byo, show. From the published that of the corresponding half
of continuous to the prosent time, the mainder of the half-year has exceeded that of the corresponding half
of isst year by, in round numbers, 50,400f. And if we suppose the same ratio of increase
to fast year by, in the half-year we shall have a net increase of 55,000f.
This sum, added to the gross receipts of the corresponding half of last year, 1,605,000f,
gives an income of 1,128,000f. Presuming the expenses to continue the same as last half-year and
year (and we should think they are more likely to be less than more), viz., 628,000f., absalance will remain of 500,000f., or, with the balance from the last half-year of 88,000f.,
500.600f. applicable to the payment of dividend was paid for the half-year ending on the 31st
December last, it would require about 445,000f. to continue the payment of 5 per cent.; but supposing that, in consequence of the opening of the Buckinghamshire line and other
works, an additional 20,000f. (and, we do not believe it will be so much) 'should be required for dividends, the company will be enabled to declare a dividend at his terate of 6
per cent. per annum, and carry the handsome surplus of 123,000f. to the next account.

٠	PRICES OF M	INING SHARES.
	BRITISH MINES.	BRITISH MINES-continued.
	Shares. Company. Paid, Price	Shares. Company, Paid. Price.
	1024 Aifred Consols 84 224	128 South Caradon 5 270
ũ	1000 Abergwessin	9000 South Tamar
è	1624 Balleswidden 9 14	256 South Molton 7 13 13
	905 Barristown 51. 3	9000 South Tamar
	6000 Bealbury	256 South Trelawny 284. 5.8
1	1280 Birch Tor & Vitifer . 104 . 6 64	2000 South Wales Mining Co. 1 1
	5000 Black Craig & Craigion 5	124 South Wh. Frances 160 480
1	5000 Biisland Consols 1 —	10000 Southern& Western, Irish 24. 4
	1024 Bodmin Consols · · · · · 3 · · 3 · · 3 · · 5000 Bodmin Meor Consols · · · · · 3	128 Spearne Cousols 10 40
	60 Bosorn 3110 121	256 St. Anbyn and Grylls 24 3 5
	120 Brewer	128 St. Michael Penkivel . 5 . 101
9	- Ditto ditto, serip 10 10	999 St. Minver Consols 1 6
i	2400 Bryn-Arian 2 1	9600 Tamar Consols 3 4 5
f	260 Batterdon 1 2 3	1024 Tavy Consols 84 . 2 4 5
1	1000 Camborne Consols 7 54	1000 Stray Fark 3 -21 g 22 g 5000 Tamur Consols 3 4 5 10240 Tavistock Consols 4 4 g 1024 Tavy Consols 8 g 2 4 5 6000 Tineroft 7 13 14 58 Tokenbury 170 10 240 Tokenbury 170 10 10 10 10 10 10 1
	— Ditto ditto, scrip. 10 10 2408 Bryr Arian 2 1 107 Budnick Consols 522, 10 112 266 Butterdon. 1 2 3 1000 Catilington 22 5 5 5 1000 Camborne Consols 7 5 20000 Cameron's Stoam Coal 7 — 256 Caradon Mines 222 10 256 Caradon Mines 222 10 256 Caradon United 24 5 1536 Caradon Vale 4 —	240 Tolcarne
1	256 Caradon United 24 5 8	256 Tregorden 34 7 8
1	1936 Caradon Vale	256 Tregorden 34 7 8 256 Trehane
	572 Caradon Wh. Hooper 51 41	2000 Trenance 3 —
	1000 Carthew Consols 12 7	1500 Trenault Line Quarries 2 3
	113 Charlestown 220 —	1500 Trenault Line Quarries 2
	128 Comfort 45 35	120 Treviskey and Barrier 130 225 230
	2560 Cook's Kitchen 14 6	120 Treviskey and Barrier 130 225 230 512 Trethevy Copper 2 2 21 512 Treville (Lewanick) 4 7
	1000 Coombe Valley Quarry 5 5 5	1000 Tyllwyd 2 21 200 United Mines 50 150 160
ı	900 Court Grange 9 10	200 United Mines 50 150 160 256 Wellington Mines 25 30 128 West Buller 10 500 256 West Caradon 20 90
	212 Craddock Moor 234 5	128 West Buller 10 500 256 West Caradon 20 90
۱	500 Cusert Mine 124	512 West Fowey Consols . 40 . 12
1	1000 Cwm Erfin 4 34 4 1000 Daren 2 . 7 7; 7100 Derwent 10 3	1024 West Powey Cousobs
1	7100 Derwent	Ditto Notes 3 41
1	1024 Devon Great Cousols., 1 2474 40 45	200 West Seton
١	1000 Dharode	512 West Wheal Frances . 18. 10
1		256 West Wil. Friendship. 9 8
1	10000 Durham County Coal 45 9 3000 Dyfngwm 10 5	512 West Wheal Frances . 11. 10 256 West Wh. Friendship . 9 . 8 3845 West Wheal Jewel 12 . 21 3 940 West Tolgus&Treloweth 12 51 61
1	2500 East Birch Tor 3 3	1024 West Wheal Treasury 7 7 8 10
ı	10000 Durham Country Coat 15 5 5 5 5 5 5 5 5	3849 Wost Wiesel Jowel 12 23 3 940 West Floigus&Trelowth 12 54 64 1024 West Wheal Trensury 7 7 8 10 1024 West Wheal Virgin 4 4 1024 Winddon Minus 4 4 1024 Winddon Minus 4 5 14 5000 Wicklow Copper 5 14 5000 Wicklow Copper 3 3 3 3 Sulphur Mines 3 3 3 3 107 Whest Adams 130 150
ı	4000 East Gunus Luke June.	5200 Wicklow Copper 5 - 141 5000 Wicklow Copper and ?
ı	128 East Pool 15 724	Sulphur Mines 3 34 34
١	256 East Tolgus 18. 7	
l	128 East Tywarnhayle	256 Wheal Albert
١	128 East Wheal Rose 50 510	128 Wheat Ann 50%
١	East of Scotland Iron Co. 5 14	120 Wheai Bal 10 22
ı	East of Scotland Iron Co. 5	125 Wheal Anna Maria 7 4 120 Wheal Bal 10 22 256 Wheal Benny 14½ 2 1021 Wheal Bray 11½ -
ı	494 Fowey Consols 40 45	2421Wheal Calstock 9 10
ı	256 Garras	
l	4000 Gen. Mining Co.for Irei. 12 4	182 Wheal Elizabeth 9 32
l	2500 Georgia Consols (Tin) 4 . 14 256 Gonamena 444 16	100 Wheal Friendly 70 661
١	128 Goonvrea	764 Wheal Franco 27 10 11
ı	96 Great Consols 1000 250 512 Great Wheal Baddern 50	100 Wheal Franco
l	512 Gt. Wh. Rough Tor Con. 241 20	100 Wheal Henry 40 256 Wheal Kingston 11
ŀ	6000 Growa Slate Company . 5 5 1026 Gustavus Mines 3 3 3	6000 Wheal Langford
1	256 Hawkmoor 124 70 6000 Heignston Down Con 24 34 4	112 Wheal Margaret 79 180 512 Wheal Mary Ann 5 40 42
ı	1500 Hennock Silver-Lead 218 4 5	5000 Wheal May
1	512 Herodsfoot 16141 15	2000 Wheal Penhale 14. 6
1	groot Hilbarnian 124 14	210 Wheat Prospect 4 7
1	1000 Holmbush	1024 Wheal Providence 1 21 3 120 Wheal Reeth 41 75 80
J	1024 Kingsett and Bedford. 11. 4 44	198 Wheal Seton 107 250
	2018 Lambergood WH. Maria 31., 9 31	512 Wheal Sophia 52 6 128 Wheal Squire (St. Erth) — 5
	252 Lanarth Consols 7 8 256 Lelant Consols 47 25 26	128 Wheal St. Ann 30 35
ı	160 Levant	1100 Wheal Trescoli 6½ 7 260 Wheal Trelawny 7592 93
	1000 Llwynmalees 9 10	956 Wh. Tremaine(St. Ervan) 94., 21
	3500 Llynvi Iron 50 50 253 Lostwithiel Consols 23 10	1024 Wheal Tremayne 94 10 267 Wheal Tryphena 40 624 512 Wheal Venton 14 14
	6000 Marke Valley 10 \$ 1 5000 Mendip Hills 3\$ 2	512 Wheal Venton 12 12
	198 Metha 34	128 Wheal Vlow (Perranz.) 14 14
3	00000 Mining Co. of Ireland 7 41 1024 New East Crowndale 2 2	FUREIGN MINES.
	1024 North Buller 14 34 4	5000 Alten Mining Company 14122 25 15000 Astarian Mining Co 15 . —
	140 North Roskear 54 160	20000 Australian 4 34 41
	140 North Roskenr 5½. 160 262 North Wh. Leisure 1½. 2 512 North Wheal Vor 2½	10000 Brazilian Imperial 23 6 62
		12000 Cobre Copper Co 40 36 38
	1026 Pendarves Consols 2 5 1000 Pendarves & St. Aubyn. 4 5 6	10000 Copiapo Mining Co 14 4 4½ 20000 General Mining Ass'n. 20 . 13 13½ 4000 Guadalcanal 5 1
ĺ	1248 Pengelly Tin 1 1 6201 Penuant & Craigwen 21 21 3	4000 Guadalcanal 5 1 2000 Ditto Preferential 24 2
	1006 Ponybunk and Ergladd 4 5	5000 Kinzigthal Mining Ass. 2 3
-	1024 Penzance Consols	5051 Mexican Company 594
	512 Plymouth Wh. Yeoland 64 6 2500 Rhoswiddol&Bacheiddon10 10	\$000 Vational Brazilian 90 92
٠	2500 Rhoswiddol&Bacheiddon10 · · 10 0000 Rhymney Iron · · · · · 50 · · 12	7000 Royal Santiago 10124 134
1	0000 Ditto New 7 3 5000 Roche Rock Tin 1 1	104000 N. Brit. Australasian 1 8s 7000 Royal Santiago 10.122 132 11000 St. John del Rey 15.142 142 43174 United Mexican Av. 222 62 62 62
	2048 Runnaford Coombe Tin 12 3 3	10,000 Worthing (S. A.) 2 2

RAILWAY TRAFFIC RETURNS.

Names of Railways.		igth. 1849	Present ac-	Price p. share		Traffic.	Returns 1849
Aberdeen	72	16	1,000,547	84	_	£1105	£540
Belfast and Ballymena	373	371	491,159	175	5	591	493
Birkenhoad, Lancashire, & Chesh.	15	1 15	960,653	182	5	1051	840
Bolton, Blackburn, & West Yorksh.		14		54	-	428	410
Bristol and Exeter	844	754	2,924,661	64	34	4093	4189
Caledonian	160	141	5,149,320	81 81	3	6115	4944
Chester and Holyhead	944	81	3,581,587	7	4	2664	1349
Dublin and Belfast		-	oprotiso.	-	-	284	290
Dablin and Drogheda	58	354	778,565	284	_	934	856
Dublin and Kingstown	72	75	349,736		6	873	838
Dundee, Perth, & Aberdeen Jane.		473	179,775	72 8	3	596	573
East Anglian (Lynn to Ely)	674	67	1,308,194	14		809	634
	754	754	3,192,759	71	5	3187	2929
East Lancashire	322	322	13,139,156	74 1	-	15762	14051
	95		1,782,7 2	44	-	2217	1241
Eastern Union	894	50		26 4	4		3938
Edinburgh and Glasgow		68	2,644,378			3851	
Edinburgh and Northern	70	70	2,024,082	54 4	2	2300	2251
Glasgew, Paisley, and Ayr	1024	74	1,996,201	434 44	8	3060	2949
Glasgow, Paisley, & Greenock	23	23	866,074	104 11	24	1024	1037
Gt. Northern & East Lincolnshire		110	5,406,157	64 7	5	3421	239)
Gt. Southern & Western, Ireland		1104	3,890,228	304 314	6†	4263	3676
Great Western	2304	306		544 554	4	17619	16466
Lancaster and Carlisle	90	90	1,476,808	50	4	3480	2108
Lancashire and Yorkshire	224	1965		364 74	3	13812	12366
London and North Western	478	428	25,286,876	102# 3#	5	46933	39798
London and Blackwall	5#	1 4	1,363,529	4	1-12	875	777
London, Brighton, & South Coast	1714	1624	7,103,102	801 84	44	2273	8448
London and South-Western	242	194	7,490,688	60 14	31	11087	9662
Londonderry and Enniskillen	144	144	171,026	16		184	162
Manchester, Sheffield, & Lincolnsh.	1604	941	2,078,135	144 15	5	5701	3648
Midland Company	4921	4634	14,042,340	337 4	541	22638	20815
Midland Great Western (Irish)	50	364	362,978	23 1	41	1254	1127
Monklands	36	-	486,245	11 44 1	6	TOTAL .	807
North British	135	110	2,800,747	74 4	3	3387	2844
Scottish Central	454	454	1,448,969	134	5	1393	1239
Scottish Midland Junction	344	32	571,877	74	_	425	
Shrewsbury and Chester	48	48	1.161,840	74 1	4	15(€,	1368
Shropshire Union	30	-	111011010	2	-	492	1000
South Devon	572	572	1,951,933	6	5	1569	1652
South-Eastern	234	1654		182 144	31	10979	8063
Taff Vale	38	38	907,398	104 141	61	2862	2082
Ulster	36	36		454	03	887	789
West Cornwall	13	13	675,000 209,386	40.5		901	266
Whitehaven Junction							
				0.1	2	100	100
York, Newcastle, & Berwick	12 2901	12 269	171,962	134 138	24	190 14642	190

LEAD ORES.

Mine.	Tone.	Price.	Purchasers.
Pantymwyn	40	£11 12 0	Walker, Parker & Co.
ren-yr-nenblas	60	11 17 0	
Westminster	35	11 16 0	ditto
ditto	35		Mather & Co.
Jamaica	80		Walker, Parker, & Co.
Belgrave	30		ditto
Maesysafu	50	11 13 0	
ditto	50		
Pont Ddu	4		
ditto	*****		ditto
Milwr	00		Eyton & Co.
Machynlleth	20		Walker, Parker, & Co.
Canconymic	00		Newton, Keates, & Co.
Caeconroy	**** 40 *****		Walker, Parker, & Co.
Arklan	184		
East Shallee			Newton, Keates, & Co.
ditto	19	17 0 0	Walker, Parker, & Co.
West Shalle	6	15 12 0	ditto
Penrhiw	121	7 18 0	Newton, Keates, & Co.
Grogwinion	52	9 15 0	ditto
Bantry	71	10 15 0	ditto
ditto		7 10 0	ditto
Total t	ons	5984 tons	
Goginan	Sold at Aberystu	£18 10 0	Pontifer & Wood

15 15 6 N 11 1 0 10 16 6 10 7 6 304 (21 cwts.)

BLACK TIN.

COPPER ORES. Sampled May 8, and Sold at the Royal Hotel, Truro, May 23.

Mines.	Tons	t.	1	Pric		Mines, Tons, Price.
Devon Gt. Cons. 7	119		-			West Caradon 81 € 7 3 6
Wh. Josiah 5	113	****	£7	7	0	ditto 75 10 18 6
ditto	111		6	18	9	ditto 54 4 16 (
ditto	100		7	1	6	Fowey Consols 5 10 6
ditto	98		7	5	0	ditto 102 7 11 6
ditto	79	****	7	3	0	ditto 68 4 7 0
ditto	76		5	18	0	Wh. Friendship 123 5 17 6
ditto	70		6	12	0	ditto 109 8 2 (
ditto	ô1	****	6	5	0	Poldice 69 5 5 6
Wh. Fanny	96	****	6	10	6	ditto 60 4 10 6
ditto	95		4	19	6	ditto 43 4 14 6
ditto	92		7	6	6	Bedford United 119 6 18 0
ditto	81	****	6	1	0	Wheal Maiden 26 4 8 0
ditto	54	****	4	0	6	ditto 9 3 2 0
Wh. Maria	.71		7	1	0	Carthew Consols 19 6 7 0
ditto	44		7	0	0	Polgooth 18 4 17 0
ditto	23		9	1	0	Wh. Jewel 9 4 3 0
Wh. Anna Maria			6	6	6	ditto 5 5 10 0
est Caradon	95	****	7	12	6	Wh. Penhale 14 4 15 6
ditto	92		6	19	0	
				TO	TAI	L PRODUCE.

Devon Gt. Cons.				1	Poldice	172	 £ 836	18	6
Wh. Josiah					Bedford United	119	 821		0
Wh. Maria > 1323		8741	18		Wh. Maiden		142	6	0
Wh. Fanny					Carthew Consols		 120	13	0
Wh. Anna Maria					Polgooth	18	 87	6	0
West Caradon 397					Wh. Jewel		 ti-4	17	0
Fowey Consols 276					Wh. Penhale	14	 66	17	0
Wh. Friendship 232	****	1605	10	6					
codnesses	a nw				Cons weeps our				

COMPANIES BY WHOM THE ORES WERE PURCHASED. Tons. Amount. 238 . £ 1333 18 6

Schneider and Co	Williams, Foster, and Co	346		2393	14	6	
	Total tons	2619	£	17,165	0	6	

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines and Parcels.—Consols 870—United Mines 821—Treviskey 511—Par Consols 347—Tresavean 323—Perran St. George 316—South Caradon 286—South Tolgus 183—Trethellan 171—Wb. Comfort 149—Treleigh Consols 110—Wheal Henry 85—Wheal Ellen 60—Outes's Ore 23—Grambler and St. Aubyn 16—Lanarth 5—Total, 4276 tons.

Copper ores for sale on Thursday week, at Tyack's Hotel, Camborne.—Mines and Par-cells.—Wheal Seton 755—Tincroft 696—North Pool 625—East Wheal Crofty 559—Cam-borne Vean 578—Wheal Baset 521—South Wheal Frances 279—East Pool 252—Fowey Consols 247—Condurrow 242—Dolcoath 220—North Roskear 68.—Total, 5083 tons.

Sampled May 1, and Sold at Swansea, May 23, 1850.

						· Mmes.	Ton	8.	Prod.	Pri	ce.
Cobre	86	 171	£13	4	0	Cuba	. 78		111 £ 8	1	0
ditto	77	 247	19	5	6	ditto	. 74		204 15	4	6
ditto					0		. 52		14 9	16	6
ditto					0	ditto	. 42		134 9	15	6
ditto	61	 234	17	16	0	Berehaven	128		118 8	7	6
ditto	60	 174	. 13	13	0	ditto	119		114 8	8	6
ditto	58	 174	13	4	6	Copiapo					0
ditto	115	 154	. 12	10	6						0
ditto	97	 164	. 12	11	0						6
ditto	96	 164	. 12	14	0	Cabral					0
ditto	50	 244	.17	17	6						0
ditto	45	 234	. 17	17	6	Dudley Slag					0
ditto	68	 231	. 18		0						0
ditto	66	 244	. 18	1	6						0
ditto	65	 244	. 18	6	0						ő
ditto	60	 23	. 18	2	6	Cronebane					0
ditto	54	 234	.18			Tigrony					0
Cuba	80	 12	. 8	7	0	Gibraltar	. 4		14 0	5	ő
ditto	79	 193			C		-				

TOTAL PRODUCE.
 Cobre····
 1197 £ 19,037
 3 6 | Dadlev Slag...
 72... £ 187

 Cuba ...
 405 4029
 6 6 | Cronebane
 4 ...
 124

 Berehaven
 247 2074
 11 6 | Tigrony
 4 ...
 124

 Copiapo.
 178 3862
 2 6 | Gibraltar
 4 ...
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 Cubral
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COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.		Am	oun	t.
English Copper Company	227	£	3891	16	
Freeman and Co	218		2135	10	
Grenfell and Sons	301		3279	8	
Sims, Willyams, and Co	248		2542	9	
Vivian and Sons	594		7513	14	
Williams, Foster, and Co	374		6642	2	
Mines Royal Company	45		781	17	
Schneider and Co	114		2063	11	
Mason and Elkington	77		1484	3	
	-	- 6	_		-

Copper ores for sale June 6.—Berehaven 128, ditto 123, ditto 112, ditto 96, ditto 81.-125 and 125 an

COAL MARKET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKE MONDAY.—Ships at market, 56; sold, 37.

WEDNESDAY.—Carr's Hartley 13 6—Hastings Hartley 13 3—Holywell 14 6—South Peareth 12 3—Tanfield Moor Butes 13—West Hartley 13 6—Wall's-End Brown 12—Eden Main 14 3 to 15 3—Lambton Primrose 15—Braddyll 15 3—Haswell 16 6—Lambton 19 9—Lumley 14 6—Scarborough 14 9—Denison 14—South Hartleypool 15—West Kelloe 14 6—Adelaide Tees 15 3—Cowndon Tees 14—Seymour Tees 13 9—Tees 16 3—Cowpen Hartley 15 6—Hartley 15 6—Hartley 15 6—Hartley 15 6—Hartley 15 6—Wixon's Merthyr and Cardiff 20—Sidney's Hartley 13 6,—Ships at market, 43; sold, 31.

Ships at market, 43; sold, 31.

FRIDAY.—Buddle's West Hartley 13—East Adairs Main 11—Hastings Hartley 13 6—
FRIDAY.—Buddle's West Hartley 13—East Adairs Main 11—Hastings Hartley 13 6—
Writh Percy Hartley 13—Ord's Redheugh 13 6—Tanfield Moor 13—West Wylam 13 6—
Wylam 13 9—Wall's-Eafd Bowicke and Co. 14 3—Hidda 13 6—Northumberland 13—
Walker 13 6—Lambton 15 9—Lumley 14 6—Russel's Hetton 16 3—Haswell 16 6—Kepier Grange 15 6—
Lambton 15 9—Lumley 14 6—Russel's Hetton 16 9—Stewart's 16 3—Howdon 14 9—
Macleen's Tees 13—Cowpen Hartley 13 6—Hartley 12 6 to 12 9—Howard's West Hartley
Netherton 13 6—Mixon's Myrthyr and Cardiff 20—Sydney's Hartley 13 6—Whitworth
Coke 20 6.—Ships at market, 92; sold, 74.

NOTICES TO CORRESPONDENTS.

MINING IN INLAND.—We have received several letters alluding to alleged important discoveries, but which are written in so vague and should at stip, as to compel us to he state before inserting them. We should seel seliged if some of our correspondent would favour us with such particulars that we can publish.

"?" Ballingarry).—The statements we publish of the sales of copper, tin, and lead, may be depended upon as correct. Many sales are made by private bargain, the particular of which do not reach us; but our returns comprehend the produce of nearly all the mines of any consequence in the country. The sales at Swansea are from the official ricketing Paper. If our correspondent can help us to any information, we shall be glad to hear from him.

M. (Neath).—The date of the patent referred to was the 2d November last; it was en-titled "For improvements in snachinery for dressing, shaping, cutting, and drilling, or bering rocks or stone; parts of which improvements are, with certain modifications, applicable to machinery of apparatus for driving piles." Messrs. Newton, of Chancery-

P. F." (Callan).—The address of Mr. Leighton is, Cross Inn, Llandeben, near Llandik H." (Leds.).—We know nothing whatever of the "Anglo-California Mining and Drodg-ing Company," or of the parties concerned in its concection. Great efforts appear to be making to get the sharet taken up in different parts of the country, and, by what we hear, the perseverance and alluring representations of their agents have been very suc-cessful, even in Yorkshire.

B. W." (Safford).—The specification of Mr. R. Plant's improvements in the manufac-ture of iron was published in the Mining Journal of the 26th January last.

"A Shareholder" (Leeds) must first apply to the secretary at the office of the company, apprising him that, on being refused the information, he will publish the particulars in our Journal.

FEBOR MINE. -- In the article which appeared last week a typographical error o

"A. B." (Pencorse).—No work of the kind has been published, but we believe one is in course of preparation. Full notification of its appearance will be given in our Journal.

INTROVEMENTS IN WESE ROPE.—We shall publish a detailed description of Mr. J. B.

Wilson's patent in our next Journal.

Wilson's patent in our next Journal.

The communication of "A Reader," in reference to "the Racing Purser and W.—L.—,"
would, if inserted, subject us to an action for libel.

"R. W." (Cornhill).—The matter had better now drop.
In another column is published
the reply of Mr. Murchison, which we presume will close the discussion, so far as the
parties immediately interested are concerned; while it would be evidently unfair to
allow an anonymous writer to further annoy by putting, it may be, a wrong construction on the words or actions of either.

VARIATION OF THE MAGNETIC NEEDLE.—\$12: Will you please to be kind enough to let .me know, through the medium of your valuable paper, the variation of the magnetic needle, from the year 1820 to the present time? You will, by so doing, confer a great favour, not only on myself, but on many of your readers.—A Virwer: Durham, duy 17.

allow an anonymous writer to mather amony or passang, a may are allowed its most nite words or actions of either.

Variations of THE MARNETIC NERGIE.—Firs: Will you please to be kind enough to let me know, through the medium of your valuable paper, the variation of the magnetic needle, from the year 1830 to the present time? You will, by so doing, confer a great the property of the present property of the prope

[The insertion of this letter should, perhaps, supersede the publication of Mr. Motley's reply; but, wishing both parties to have an opportunity of fall explanation, we have appended it, in the hope that the discussion may now end.]

reply; but, wishing both parties to have an opportunity of full explanation, we have appended it, in the hope that the discussion may now end.]

SCREENSION BRIDGES.—REFRECTED FRIEND: If your correspondent had confuned himself to still maintaining his error, I should not have further noticed his communication but as he has thought proper to instunate that the ander-suspension bridge is dangerous, by the vulgar saying that its title ought to be "Motley's Bridge to Kingdom Come'—thereby inferring that it was of a character dangerous to human libe; whereas I contend it is capable of being made more certain and stable than any other kind of bridge, not excepting a stone arch; for the abutments of a stone arch may give way. The suspension would not, in such a case become dangerous, whilst the other would tumble down, and thus, probably, produce the catastrophe which your correspondent wishes to infer would be the case with the under-suspension. That any of your readers may test your correspondent's accuracy, let them take a piece of wood, say, 3 or 4 feet long, and I inch square; let each end rest upon a bearing point; then let them hang on the middle a weight afficient to make it deflect an inch; then remove the same "weight to haif way towards either point of rest, and they will quickly discover the error your correspondent has made, and disprove his assertion—viz.: that the middle of a parallel beam is not the weakest point.

Now, although at issue with your correspondent on the subject of bridges, I quite application to labour ought to be sufficient to enable a labouring man to exist courbriably; and I hope the time is coming when the labouring poor may be protected from the grinding influence of weath—effected by law, both as regardatine and minuman memuration; and that education and correct moral instruction may be diffused

from the grinding influence of wealth—effected by law, both as regardatine and minimum remuneration; and that education and correct moral instruction may be diffuse more generally than is unhapply the case at present; by which means the demoral ising and destructive influence of habits of drunkenness (the great curse of mankind, may be greatly diminished, and consequently increase the happiness of the human family.—Thouas Motley: Stangate, Lambeth, 5th mo., 20.

Composition of the Brosze of the Anglests.—It appears from a number of experiments, that the bronze of which the ancients formed their weapons, and other articles, consisted of 88 parts of copper to 12 parts of tin; and it is remarkable that the same admixture of the metals has been employed in nations very remote from each other.

A Secretary " (Broad-street),—Growan is the name of var by Consistent and the consistent of the results are the consistent of the metals has been employed in nations very remote from each other.

Secretary" (Broad-street),—Growan is the name given by Cornish miners to gramb d to rocks of the same structure.

men to rocks of the same structure.

Chemicus "(Liverpool).—Succinic acid is obtained by distilling coarsely pounded amber in a retort by itself, or mixed with one-twelfth of its weight of sulphuric acid, diluted with half its weight of water, with a heat gradually raised. The acid which sublimes is to dissolved in hot water, to be saturated with potass or sods, boiled with bone-black, to remove the foul empyrenmatic oily matter, filtered, and precipitated by nitrate of lass, to coavert it into an insoluble succinate; which, being washed, is to be decomposed by the equivalent quantity of sulphuric acid. Pure succinic acid forms transparent prisms. The succinate of ammonis is a usoful re-agent for detecting and separating iron.

An Agriculturist" (Aylesbury).—The London, the Plastic, and the Weald clays, whi lime improves, are of a different geological age from the Oxford clay and its derivati soils, on which lime is often employed, without any sensible effect.

26, FLEET-STREET, Lo nd Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietor

THE MINING JOURNAL Railway and Commercial Sagette.

LONDON, MAY 25, 1850.

The Mining Journal is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

Continuing our observations of last week respecting the exemptions and liabilities in the winding-up of certain foreign companies, we have not assumed that their affairs must necessarily pass into Chancery. Our object is to satisfy, as far as we can, the desire of numerous correspondents to be apprised of their true position, many doubting that, as unregistered proprietors, they could be included in the list of contributories in the possible contingency of a winding-up. To dispel a delusion so evident to every one who has followed the course of decisions in the Masters' office, we have availed lowed the course of decisions in the Masters' office, we have availed ourselves of a long-acquired knowledge of the affairs of one of those companies—the Asturian (a fair specimen of the class)—to offer some general observations on a state of facts which, in the main features, will be found applicable to most of our Hybrid germinations from English money, and foreign projects. The Asturian Mining Company is based on what the all-powerful influence of British capital might, by thrift and honesty, have made a sound and profitable speculation. As it is, there can be no room for a second opinion, that the contrary principles have influenced the management of the concern; the power which should have controlled the directive officers was too apathetic or timid, if not too servile, to strike at the root of evil, and discharge such of the directors as were proved unfaithful or incompetent; and the natural consequence is, as in all similar cases, that the fears of our correspondents may be realised from day to day. They must either hand over their property to the first adventurers who may offer them terms, whether advantageous or the contrary, or else seek the protection of the Court of Chancery.—Therefore, it is a matter of importance for our readers to be informed where their liability begins and where it ceases, which we proceed to demonstrate.

where their liability begins and where it ceases, which we proceed to demonstrate.

The property being of a certain value, admittedly from 70,000l. to 100,000l., it is reasonable to assume that, if it be protected in the way the Court of Chancery alone knows how to protect, it will be sold for no inconsiderable sum; and whatever advances may be required in the shape of contribution, may be restored on the division of the funds. The parties who, as actual holders of the shares of the company, are the nominal partners, are also those primarily bound to make those advances, and entitled to the proportionate reimbursement when funds are realised. Failing to procure sufficient means from the nominal partners, there are others to whom the Master may apply for that purpose—and that on the principle, that although not actually members, their credit has been expressly, or impliedly, pledged to the satisfaction of the company's contracts, in part or in toto. Our present opinions cannot be expected to bear with them the authority of a legal essay; but we have taken considerable pains to arrive at correct views, and we think that the following onumeration of the several classes liable to be included in the list of contributories will not be far short of a fair estimate:—

1. All actual holders of registered or unregistered shares to whom the

1. All actual holders of registered or unregistered shares to whom th

original issue can be traced. 2. All transferees who have committed themselves by any act of proprietorship. The innumerable instances of the mode whereby a transferee may be thus compromised, prevent our entering into details. However, there is no rational man who is not competent to decide for himself what

there is no rational man who is not competent to decide for himself what may constitute an act of ownership by conscientiously answering the following query:—Have I done any act which, as between man and man, represents me as the owner of shares in such and such a company?

3. Holders who have done any act to represent themselves beneficially interested, although others may be the nominal partners.—In this category may be named parties with whom shares have been deposited on mortgage, or by way of security.

4. Those who have transferred their shares, but whose transferree has not been admitted as a substitute by the usual forms which imply an acceptance, according to the regulations which govern the partners inter se. This condition involves the necessity of the retiring partners' enforcing the performance by his transferee of the first obligations attached to the shares, which may amount to an acceptance of the transfer.

formance by his transferee of the first obligations attached to the shares, which may amount to an acceptance of the transfer.

5. All transferors are liable for contracts entered into prior to the transfer of their shares; and it may be a question in those companies not specially regulated by statutes, and thereby left solely under the influence of the common law, how far the original holders are answerable for the insolvency, repudiation, or failure to contribute on the part of their transferees, until there is an actual dissolution.

6. The personal representatives or others taking the beneficial interest in the shares under the administration of the estate of a deceased share-holder.

7. Every person who may have ceased to be a member under circum-

stances of fraudulent representations as to the shares assigned, surrendered, or forfeited, or their personal representatives.

Moreover, there are two apparently insignificant words in the clause of the Winding-up Act (1848), defining the term "contributory," which are characteristic of the hastiness, or, as some will have it, slovenliness, of our modern legislation. These are "otherwise, howsover." After giving an almost unbounded range of application in express language, they are added to remove any limit which might justify a defined opinion as to exemption. Independently of the foregoing list of those chargeable with contribution, contact with the shares, or meddling in the affairs, however foreign to an intention to become a perturn, may exhibit a ground upon contribution, contact with the shares, or meddling in the affairs, however foreign to an intention to become a partner, may establish a ground upon which it may be alledged that an ostensible connection with a company presumptively arises. Such a laxity of law is very reprehensible; and in concluding this topic, we may be permitted to express a hope that the Legislature will take an early opportunity to contract this prolific source of doubt. For if the present latitude is continued, it will naturally render the holders of capital over-cautious, and thus injuriously interfere with future enterprises liable to be subjected to the operation of those enactments.

MINING IN SPAIN.—Mining operations throughout Spain are rapidly increasing in consequence of the facilities afforded by the introduction of steam engines. The extensive lead and argentiferous mines of Rothschild, according to the last returns, have yielded a far greater amount of ore then was expected, and a large quantity has been exported to England. The quicksilver mines are also in a very prosperous state. Explorations on an extensive scale are now being made in different parts—the Government having decided upon establishing some trunk lines of railway, which will run through the principal metal-lurgic provinces.

the least trade of France.—A great improvement in this branch has notly taken place—considerable orders having been received on account of training now in progress. Mining in general is looking very brisk, both e metallurgic and coal departments. ently taken

in the metallurgic and coal departments.

MINING IN BELGIUM.—The last accounts from Leige, Charleroi, and other localities, represent a general briskness, and several furnaces have recently been put in full blast. A large demand still continues for iron to the north of Europe.

CONTRACT FOR WELSH COAL TO JAMAICA.—The Lords of the Admiralty will, on the 4th June, receive tenders for supplying 1000 tons of Welsh couls at Jamaica, for the use of her Majesty's steam-vessels. On the same day the Lords Commissioners of the Royal Hospital, Chelsea, will treat for 650 tons Stewart's Wall's-End, of the best quality, and on the 5th June for supplying the Royal Military Asylum, Chelsea, with 420 tons of good Newcastle or Sunderland coals. This week has been a rather busy one for contracts—1000 tons of Welsh coals for Ferando Po, and 1000 tons ditto for the Island of St. Paul de Lorando, in Africa, for the use of her Majesty's steam-vessels, were contracted for on Tuesday; and on Wednesday for 5000 tons of West Hartley and other sorts, to be delivered at Bombay, for the use of the East India Company's steamers, all of which were strongly competed for. Large contracts are expected soon to be made for Gibraltar and the Mediterranean for steam purposes.

ELECTRO-MAGNETISM AS A MOTIVE-POWER.

Mr. Robert Hunt, Keeper of Mining Records in the Museum of Econo ted the results of his investigations on the probability of our being enabled to employ electro-magnetism as a motivepower, at the Society of Arts, on Wednesday last.

In the first place, the lecturer briefly described the machines which had

been constructed by Dr. Schulthess, Salvatore Dal Negro, the Rev. James M'Ganley, Professor Jacobi, Professor Botto, and by Professor Whe stone, Mr. Davidson, and others, up to the present time, when Mr. Hjorth is engaged in constructing electro-magnetic engines. The author then proceeded to show, in a popular manner, how the power was derived, and he insisted on the constancy of the law which shows, whether in reference to the electric-light, heat, or motive-force, that for any given result produced, a given quantity of some material must be consumed in the battery. That, as it was necessary to burn a certain quantity of coal to produce the required horse-power in a steam-engine—so was it necessary to effect a similar change in a certain quantity of the elements of a voltaic battery to produce any given electro-magnetic force. The result of many hundreds of experiments, deduced in all cases from magnetic arrangements, giving the maximum effect, with the least consumption of material, was as follows—A grain of zinc consumed in the battery induced an electro-magnetic force capable of lifting 80 lbs. I foot high; whereas, in the boilers of the Cornish steam-engines, I grain of coal produced steam-power capable of lifting 143 lbs. through the same space.

The lecturer then proceeded to show that the electro-magnetic force could be produced with the greatest economy in those batteries where the chemical excitement was the greatest. That I-horse power is obtained in an electro-magnetic engine of any given construction at the cost relatively of 45 lbs. of zinc in a Grove's battery, and of 75 lbs. of zinc in a Daniell's battery—showing that a great mistake was made in endeavouring to obtain slowly-acting—i.e., constant batteries, as they are called—to work electro-magnetic engines.

The action of electro-magnetism through space next occupied attention, and the results deduced by Mr. Hunt from many hundreds of experiments were read. The following is the table showing a few of those:—

The armature being in the first place brought into contact with the magnet, was fixed to one end of a beam, and the weights in the opposite scale necessary to remove the armature, was the measure of the force exerted. By an easy adjustment, the contact of the magnet was afterwards prevented, and the force exerted was weighed off in the same way. By this it will be seen that the attr he insisted on the constancy of the law which shows, whether in reference

ontac	t.		i.	-250 in is	th	1	-12	5th	,	1-84 ditte	th		1-620 ditto	1			1-50t	h		1.	35t	h	1-1	25th
18				13		 	11			 74		 	74				61				5		 	5
26				12		 	10	å		 -		 	62				-				-		 	-
40				23	1.	 .,	20			 14		 	12				9				-		 	_
22		••		10		 	9	b		 54		 	51				44				43		 	4
14				8		 	7 1	-10	0	 6		 	5 1-8				4				3	10	 	_
100			••	64		 	50			 34		 	30	44			25				-		 	-
98				62		 	49			 32		 	28				215				20		 	20
300				175	l	 	129			 110		 	84				63				51		 	50
320				178		 	132			 1111		 	86				64				50		 	50
150				84		 	63	ł		 -		 	50				35				25		 	24
120				65		 	49			 35		 	26				20				17		 	14
220				90		 	50			 47		 	40				86				-		 	_
The	-		-1			 -				hon		 .1.	-	-4	34	١.	TT		1.	_				-3

The results of experiments made with one of Mr. Hjorth's engines, and furnished by that gentleman, were shown to be as follows:—

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ľ'n	this	it	,	vi	11	1	h	n.	80	10	n	ŧ	h	nt		tl	he	for	ce		is		m	10	91	911	111	er	1	at		he	die	sta	nce	of	

In this it will be seen that the force is measured at the distance of an inch in the first place, whereas, by reference to Mr. Hunt's table, it will be seen that the great loss of power is at distances under the 1-25th of an inch. Mr. Hunt next drew attention to the results obtained by Dr. Scoresby and Mr. Joule, which were as follows:—

Rate of revolution magnet per n		Force of Current.	Zinc destroyed per hour, in grains.	Pounds lifted 1 ft. high per hour.
			205	
Solutions. 2 180		850	190	17,820
80	*** ******	850	190	8,800
102		670	151	9,000
114	*********	13300	291	10,030
122		10000	223	12,672

In the investigations which Mr. Hunt has made, he has proved that the moment a magnet is set in motion it loses power, and he gave the following as the mean of many experiments showing this loss:—

rce of o	rest.	t	m	aş	gn	e	ĺ										n	e		current magne
	2232 .								 		 						١.			920
1	2232 .								 	 ٠.	 									850
1	1381 .								 	 			 							850
1	3381 .												 							678
	2081 .														4				Z.	1300
	2000							9												1000

It was stated, that whenever any magnetic body is made to move in front of a magnet, that the magnet immediately loses attractive force. The mean of a great many experiments being as follows:—

	Res			-	-	-	Ξ.	-	_	_	_	-	 -	-	-	-	_	_	-	-	-	_	-		 _	T	-						,			notion.
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A communication from Mr. Hjorth was read by Mr. Hunt, in which he says—"The induced currents by the intermitting motion of the magnets are exceedingly strong. I have, therefore, been lead to the idea of making these currents available, by applying a secondary coil around the primary coil, and extending the first to another set of magnets." This result was illustrated by a magneto-electric machine.

It conclusion it was contended, that with any form of voltaic battery now known, the application of electro-magnetism, as a motive-power, was almost hopeless within any moderate limits of expense.

A grain of zinc produces, on the best form of electro-magnet, a force equal to lifting a weight of 80 lbs. 1 ft. high; but as this power diminishes so rapidly through space, and as it is again diminished the moment motion is established, the highest power it is capable of exerting in practice is 40 lbs., whereas a grain of coal exerts a power equal to 143 lbs. Zinc costs 216d, per cwt., coal less than 9d.—therefore the cost of working a magnetic engine would, under any conditions now known, be very much more than one hundred times more expensive than the cost of working a steam-engine. working a steam-engine.

STEAM COMMUNICATION DIRECT WITH INDIA, AUSTRALIA, AND NEW ZEA-LAND.—We stated some time ago that a contract had been entered into by the Peninsular and Oriental Steam Navigation Company, and the Board of Admiremissiar and Oriental Seam Navigation Company, and the Board of Admiralty, for a monthly conveyance of mails by their packets from Southampton to the Cape of Good Hope, India, Australia, and New Zealand, but in consequence of the opposition shown by the monopolists of the East India Company to such an advantage to the public, and particularly the mining interest in those distant colonies of the British Empire, it had not been carried into effect. It is stated that representations have been made on the part of Government a this unjust opposition to so great a facility of intercourse, and that the of Leadenhall-street have at last given their sanction to the arrange which will be now carried into operation. Sovernment against and that the lords

IMPERIAL SALT AND ALKALI COMPANY.—In the Vice-Chancellor's Court on Thursday, a potition was presented for the purpose of winding-up and dissolving the company (which had been formed in 1836), on the ground that the petitioner, a gentleman residing in Oxfordshire, had been sued by some of the shareholders, and that they were unable to obtain any accounts. The petition was opposed on this ground, that the evidence failed to show that the company was unlikely to become prosperous, and they stated that such was the opinion of one of their clients who held 300 shares in it, and who feared that a reference under the Act might tend to injure its character in the commercial world. Sir J. L. K. Bruce said, "The case appears to fall within some one of the eight cases mentioned in the fifth section of the Act of Parliament, whether the language of the eight case is construed, as I suppose that it ought to be construed, in the limited manner mentioned in Spackman's case, or in any larger manner. But, from the very extensive want of information which appears to me on all hands with respect to this association, think it proper to direct a preliminary inquiry. Therefore, let it be referred to the Master, to inquire whether upon any, and what grounds, it is necessary or expedient that this company should be dissolved and wound-up, with liberty to the Master to report any circumstances specially." IMPERIAL SALT AND ALKALI COMPANY .- In the Vice-Chancellor's Court

THE TIN TRADE .- No. 111.

Since the abolition of the coinage duties, it has been very difficult to obtain thentic returns of the production of tin which can confidently be relied on, and an office for the registering of all mineral produce would form a va-luable adjunct to a Mining Record Office. It is much to be regretted that the Legislature has not compelled our mine proprietors to keep a journal of their operations, so that, on reference at any future period, the true state of the mine could be always ascertained. Were this done, so many useless and abandoned mines would not be taken up, and needless treasure wasted, on chimerical spe-culations. The following table of five years, from the year 1827 to 1831, will show the quantity of British tin coined, together with the relative productions of Cornwall and Devon, and the quantity exported:-

| Cornwall Civits. q. lbs. 49,474 0 21 41,426 2 13 33,215 0 8 30,425 1 8 21,762 2 0

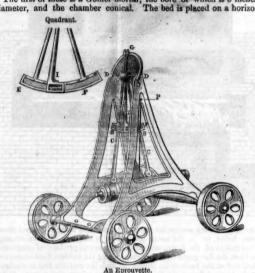
The production of both countries has since increased, though in what ratio it is impossible to say. In allading to the Maiscea tis, it may be necessary to observe, that the production there has been estimated by McIoleto to be core of Sanjienjang, Naning, and Perak, is reported to yield 76 per cent. of metal without dressing. But the process of sensing, as conducted by the Malays, besing very defective, and soluteration frequent, the Punisalizar in fetches only be all as from \$3.6 to \$160. Standard to the Control of the Control of the Control of the Malays, besing very defective, and soluteration frequent, the Punisalizar in fetches only be all as from \$3.6 to \$160. Standard to the Control of the Contr

HISTORY AND MANUFACTURE OF GUNPOWDER .- No. VI.

The following methods are adopted to prove the quality of gunpowder: A dram is placed on a piece of clean writing paper, and fired with red-hot iron wire. The powder is good if the following effects are produced: the flame should ascend quickly, with a good report—the paper should be left free from white specks, and holes should not not be burnt in it. When blasted on a clean plate of copper, good powder will leave no trace of foulness behind it. These are good criterions in skilful and honest hands, but, by a little manouvering or unskilfulness, good powder may be made to show the signs of bad, and indifferent powder may be made to assume the characteristics of good. The colour of good powder approaches that of slate, but old and deteriorated powder assumes a brown hue, which becomes quite "foxey" in bad powder. The grains of good powder are free from cohesion, and possess a degree of hardness well known to the practised examiner, when rubbed between the finger and thumb. It should admit of being readily poured from one vessel to another, be free from lumps, and when exposed about 18 days to the atmosphere it should not absorb more than 12 ozs, of moisture to the 100 lbs, of powder. If it absorb 1 per cent., the powder should be condemned. The projectile strength of powder is ascertained by firing a portion from the mortar and eprouvette. red-hot iron wire. The powder is good if the following effects are pro-

tar and eprouvette.

The first of these is a Gomer mortar, the bore of which is 8 inches in diameter, and the chamber conical. The bed is placed on a horizontal



An Eprowette.

platform, and the mortar brought exactly to 45° of elevation. A 68-pounder shot is propelled from this by 2 ozs. of powder, very accurately weighed and placed uniformly in the bottom of the chamber by a funnel, and fired by a piece of quickmatch placed in the vent. The average distance the shot is projected by three discharges is taken to indicate the strength of the powder. New large-grained powder should give about 270 feet.

The eprouvette is a half-pounder brass gun, A B., suspended by rods, A C, B C, so as to vibrate on the axis D D. E F is a graduated brass are, secured to the rods, A C, B C, having an index, I, fitted to the axis, D D. The limb, G H, attached to the index, prevents its moving in the direction of the recoil, and, consequently, the arc slides past it during the first motion of the gun. The pressure of the index upon the head of the rods, A C, B C, is such that, without being sufficient to check the recoil, the index may keep the place to which it has moved, and thus show the greatest vibration resulting from the discharge of the piece. When powder is to be proved, the stand, or frame, must be placed in a horizontal position, in both directions, by the plummet attached to the point, P, and the trucks ecothed, to prevent any motion by the swinging of the gun when fired. Two ounces of the pswder to be proved, accurately weighed, is then placed in a copper ladle, which is pushed up to the end of the bore, and the muzzle raised to an angle of 45°, so as to let the charge fall to the bottom in as nearly as possible the same way every time. The gun is next placed horizontally at rest, and the index, I, brought to zero by means of the screw at G. The gun is now fired by a piece of quickmatch, placed in the vent, and the arc of vibration noted in degrees and tenths. The average of three discharges at Waltham Abbey, Purfleet, and home stations, and of five abroad, is taken to indicate the strength of the powder. In repeating the several rounds of proof, should the zero on the graduate

men were given in No. v. of these	pape	18:	•				
No. of	RANG	ES BY	MOR	TAR-	FEET.	Ep	rouvette
	st fire.		d fire		Mean.		egrees.
17 Said to be of same manufacture, but	5 97		. 93		. 95		16.6
25 procured from different dealers	2142		. 137		.139		17.3
3	150		. 91		-1204		18.7
4 2 Two qualities from same manufac-	C 79		99		. 89	*****	14.6
Two qualities from same manufac- turers, but different dealers	125		148		. 136		
6) throis, but amerent deniers	€ 83		67		. 75		
77 Two qualities, from the same manu-	C118		113		. 1154		17.7
85 facturers	2 43		. 55		. 49		16.9
Three qualities, from same manufacturers	C 169		158		· 1632	7	12.0
10 Fratavana	128		148		. 138	}	to
113 metarers	£ 127		107		.117		15.2
Government large grained, or	1-		-		.265		21.0

The same distinguished officer also gives the following results of experiments on the relative strength of Government cannon, or large-grained powder and merchants' blasting powder, by the bursting of 5½-inch spherical care abelia.

No Experi	of ments.	No.	of C	harg powe	es of	Effect.			f .		ges of der.	Effect.
ent pine	*ERABBIN		ten wat	Dunc	08.		X I			Ou	nces.	
will ard		1	****		*****							44.1
	**	. 2		6	****	None.		 	****			-
-		-1	*****	8	****	Burst	****	 -			*****	-
4	*****	-			*****						*****	
			** ** *								*****	
	*****								****	12		Burst.
	*****				*****					11	*****	None.
	*****		*****									
	*****				** ** **							
	******				*****							-
	** ** **				*****							
	*****		*****		*****					12		None.
13			*****							14		Burst.
	*****					-		11				
					*****						******	
	*****				*****							
	*****				*****					. 12		
	*****		*****		*****							
19	*****	-	*****	-		-		 6		12		Burst.

In the proof of gunpowder many precautions have to be observed. The piece must be fired immediately after it is loaded, and it must be regularly spunged after each round, and well washed out and dried after the proof of each sample before another is proved. Particular attention should also be given to the temperature of the metal, for I have knewn it to rise so rapidly and irregularly that the business has had to be stopped, for no

 Since writing the above, the proof by eprouvette has been discontinued in the Ord-nce Department—the mortar proof being alone retained to ascertain the projectile ce Department—the mortar press.

agth of powder.

Loaded and fired when warm from previous explosions.

Third trial of same shell, but loaded and fired when warm.

County of the same shell, but quite cold.

proper judgment can be formed of the strength of powder fired from a heated gun. The reason of this is, that when the gun is cold a considerable quantity of the powder is discharged without having gone off, it not having been raised to the proper temperature before it was forced out; but when the gun is warm the powder becomes heated before the light is applied, and the quantity discharged without undergoing combustion is less. This may be proved by placing a board a little distance from the front of the piece, when the powder that has not exploded will be found to have entered the wood like so much small shot.

In proving powder by mortar in France, a brass ball, of 60 lbs. weight, is used. The diameter of the mortar is 7 inches 9 points, or three-quarters of a line, and has one line of windage. The chamber holds exactly 3 ounces; their best powder must give a range of 90 toises (540 English feet), and their restoved powder 80 toises (480 English feet), to be admitted into the service.—Portsmouth, May 18.

IMPROVED PRODUCTS FROM COAL.

IMPROVED PRODUCTS FROM COAL.

A patent has been secured by Mr. C. Cooper, of Southampton-buildings, for improved methods of treating coal, the specification of which has just been published, some portions, at least, of which appear likely to tend to a greatly economised use of that article of fuel. His claims are:—For the purification and separation of coal, by taking advantage of the difference of specific gravity of the different particles. This is effected by passing it through a jogging sieve, furnished with a number of partitions, composed of perforated metal plates, the perforation of each being smaller than the one above, and having a portion of the sides of each cut away, whereby the different-sized lumps are shaken over into receivers, and the fine dust delivered from the last division. The foreign matters, such as pyrites, may be picked out by hand from the various collections, which contain no dust; while the dust will be comparatively purified, in consequence of the coal being of a more friable nature than the foreign matters.

For a combination of a cominuous acting and classifying water-sifting apparatus, for separating coal from foreign matters, and also for separating from each other substances of different specific gravity. The apparatus consists of a water-trough, divided into two chambers by a perforated vertical partition, reaching nearly to the bottom. The materials are placed in one chamber; and in the other is a piston, which, at every down stroke, agitates the water, and holds the matter partly in suspension, which, when left at rest, descend according to their respective gravities with the coal at the top of all, when they may be separated.

For a mode of constructing coke ovens shallower and longer than here-tofore, with one end larger than the other, with openings along the centre of the floor, and in the lower parts of the sides communicating with flues furnished with doors, for the purpose of changing the currents of air alternately. There is a moveable arch, or cover, which may be

of the floor, and in the lower parts of the sides communicating with flues furnished with doors, for the purpose of changing the currents of air alternately. There is a moveable arch, or cover, which may be moved out of the way when charging with coal.

For increasing the density of the coke, by ramming the coal into iron cylinders, which are placed over holes in the floor, and after the oven is filled are withdrawn.

For a mode of discharging the ovens by an iron plate fitting the small end of them, and being pushed forward by a screw, forces the coke out at the larger and.

the larger end.

For a mode of extinguishing coke, by placing it in a vessel with two casings, having water between, the steam from which is conducted to the coke, to expel the air, and complete the coking operations.

For a method of distilling tar by the introduction of steam, the partial removal of atmospheric pressure in purifying and washing the oil, and in the application of the process to the distillation of naphtha, and other products of coal. The tar is placed in a boiler, and, when near the point of ebullition, steam is conducted into the centre of it by means of a steam pipe with "rose" ends; the vapours are led into a condenser, fitted with an air-pump, by which a constant partial vacuum is maintained. This is connected with a reservoir of water, the oil is drawn off as required, and the water allowed to return. the water allowed to return.

The last claim is for a mixer, for intimately combining the materials used for making artificial fuel, with machinery attached, for forming them into bricks, or lumps, which may then be taken away by hand to the drying floors.

The last canni is not so, with machinery attached, for forming them into bricks, or lumps, which may then be taken away by hand to the drying floors.

MINING CUSTOMS—"LETTING BARGAINS."

In the Mining Journal of 4th May, we reported a cause (Harrison r. Amag) which had been argued in the Vice-Chancellor's Court, on the previous day, for an injunction to restrain the defendants from rusing lead the country of the property of the country of the country of the property until they can recover at law. The authority of the agent, W. Jones, is impeached upon two grounds. First, that although by the custom he might grant a lease for one year, which has expired, be took upon himself to grant if for two years. A. Tounport an injunction, the plaintiffs alump of the property until they can recover at law. The authority of the agent, W. Jones, is impeached upon two grounds. First, that although by the custom he might grant a lease for one year, which has expired, be took upon himself to grant if for two years. A. Tounport an injunction, the plaintiffs must prove one, at least, of these propositions, and also that they were ignorant of the agent having exceeded his authority, and had not done anything to confirm his acts, or deprive themselves of their right to the interference of a court of equity. So far as the case depends upon the affidavits of the plaintiffs and the plaintiffs the plaintiffs of the plaintiffs, admitting, as it does, the custom as to one year, denies that it existes at all as to unopened ground, to the first affidavit of the plaintiffs, admitting, as it does, the custom as to may year, denies that it exists at all as to unopened ground, and the the defendants work has past to the particular that on the plaintiffs, admitti

ON THE EXPLOSION OF STEAM-ENGINE BOILERS

darly during ngine boiler explosions, both in this country d in the United States of erica, have been of very frequent occurr The awful sacrifice of aman life, and great destruction of property usually attendant on them invest these matters with grave intere

In the United States high-pressure steam is commonly employed—es-sentially so in the steam-boats which navigate the Delaware, the Hudson

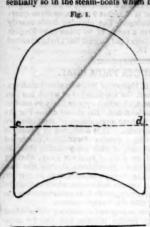


Fig. 2

and the Mississipi. In the United Kingdom, although high-pressure steam-engines are used, yet the employment of them may be con-sidered as the exception, not the rule. Anomalous as it may seem, it is nevertheless true, that explo-sions of the kind, in this kingdom, more frequently take place with boilers worked either at low, or at boilers worked either at low, or at moderate rates of pressure, than with those worked at high. We wish particularly to impress this knowledge on the public mind. It is essential to the interests of the community that it should be so. A want of that knowledge, combined with the erroneous opinions which generally prevail on the cause of steam-boiler explosions, and which attribute such accidents. and which attribute such accidents, almost universally, to great intensities of pressure of steam, or the liberation of the gases, have, we are induced to believe, been the cause of many such catastrophes. When, therefore, we reflect how important it is for the proprietor of a steam-engine, as well for his own pecuniary interests as the personal safety of those who are employed by him, to be acquainted with every minute particular of matters of this nature, we are led to explain what, in our opinion, is one primary cause of such explosions. and which attribute such accidents

In the annexed woodcuts, fig. 1, represents a vertical section, and fig. 2, a plan of the underneath part of a circular-shaped boiler, concave at the bottom, and hemispherical or domed over at the

spherical or domed over at the top—not uncommon in the mining districts of the kingdom. Boilers of this kind, from having been extensively adopted by the eminent engineer, are not unfrequently called the "Smeaton boiler;" by other persons, the "egg boiler," from its appearance, when rising above the brickwork, assimilating to that of an egg in its cup.

It has fallen to our lot to witness, during our professional practice, the destructive effects of explosion, as produced by two boilers of this peculiar construction—one in Lancashire, the other in Staffordshire. In both instances, the boilers, though of great weight, were lifted from their seats, and blown to almost incredible distances. Yet the boilers were employed ordinarily in generating low-pressure steam; and, so far as could be ascertained, there was no reason to doubt that, at the time, either of them was acting otherwise than in the usual manner. Numerous opinions, entirely of a speculative character, were advanced as to the causes of these explosions, most of them hinged, as is usual in such cases, either on the supposition that the safety-valve was defective, which allowed of an undue augmentation of steam in the boiler, until it attained to a pressure that could not be resisted; or, to the non-effective working of the hot-water pump, which, by not supplying the boiler with water to compensate for that vapourised, allowed the metal of the boiler to become so heated by the action of the fire as eventually to absorb the oxygen from a portion of the water, and thereby liberate its other constituent—the hydrogen—whereby, in the opinions of such persons, explosions do take place. We, from our own examinations, entertained very different thoughts at the time, although we had not occasion publicly to avow them. Since those periods the personal inspection of numerous boilers have confirmed the impressions we then entertained.

We shall now endeavour to elucidate, by familiar exposition, the causes of such explosions; and we do so the more willingly as we are

We shall now endeavour to elucidate, by familiar exposition, the causes of such explosions; and we do so the more willingly as we are in the hope that much good may be educed by eliciting the attention of engine proprietors and engine-tenters to the matter. We must state, however, in the first place, that, as we have not got by us, convenient for reference, the dimensions of the two boilers to whose explosions we have referred, we shall, for the argument, take suppositions dimensions. Suppose the diameter of the circular part of each boiler, at a,b, or c,d, to have been 12 ft., and that, for sake of simplification, the curved top and bottom parts of the boiler, though convex and concave, be considered to have been flat, each presenting the same diameter of 12 ft.; under such circumstances, the area of the top and bottom plates, respectively, would have been 16,286 inches. If, therefore, the pressure of the steam within the boiler ranged no higher than 12 lbs, beyond the atmosphere, the total amount of pressure on the top and bottom plates would not have been less than 195,432 lbs., or about $87\frac{1}{2}$ tons each. Now, if we examine attentively the nature of this pressure, or force, we shall perceive that, so long as the boiler remains sound, or is in good condition, this enormous amount of power acts equally, and sty tons each. Now, it we examine attentively the nature of this pressure, or force, we shall perceive that, so long as the boiler remains sound, or is in good condition, this enormous amount of power acts equally, and internally, both against the bottom of the boiler, with a tendency to force it the more firmly on its seating of brickwork, and against the top of the boiler, with an inverse tendency to project it into the air on the principle of the sky-rocket. Both forces being equal, and acting in opposite directions, balance one another. Hence, so long as the boiler remains sound, these conditions are undisturbed, and the action of the force is equivalent to that of statical equilibrium. The boiler, therefore, has no tendency to ascend or descend, by virtue of that pressure, but is retained on its seat by the weight of the metal of which it is composed, and the weight of the water within it. Suppose, however, on the other hand, that, from long usage, and consequent weakening of the boiler by the action of the fire upon it, a rent, or considerable fracture of the metal, takes place below, so as to allow of a sudden and comparatively large escape of heated water into the flue, or space, g, h, and on and against the red-hot brickwork, the consequences then become frightful. The pressure on the top and bottom of pressure on the bottom, caused by removal of that portion of the metal displaced by the fracture; but underneath the boiler, between it and the brickwork, the destructive effect of the pressure—caused by instantaneous displaced by the fracture; but underneam the boner, between it and the brickwork, the destructive effect of the pressure—caused by instantaneous evolutions of large bodies of steam from the heated water and heated brickwork—becomes alarmingly great. It is of itself amply sufficient, without extraneous aid, to account for all those devastating and painful casualties we are accustomed to witness at such times. We repeat that, just before, and immediately subsequent to, the fracture, the pr the bottom, subducted by the opening made by the rent; but beneath the bottom, subducted by the opening made by the rent; but beneath the boiler, the pressure acts equally against the brickwork of the flue, g, h, and the under-side of the bottom part of the boiler; and as this latter is unconnected with its seating of brickwork, excepting by its weight, which, in a boiler of that construction, does not, with its complement of water, often iterior of exceed 20 tons, the projection of the boiler into the atmosphere is the in-

evitable results.

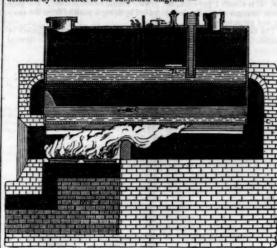
It is not possible to determine what the amount of that projectile force may be; for, when the fracture takes place, and the water, by escape, occupies a greater space, the pressure of the steam is most probably diminished in the interior of the boiler, although acting with equal intensity of force ar regards that pressure, both against the top and bottom of the boiler internally. But beneath the boiler the pressure is augmented to an enormous extent, partly by large bodies of the heated water—already at the temperature of 2450—flashing, when liberated, instantaneously into steam; and partly by other quantities of such water being projected against the red-hot brickwork of the flue, and on the large mass of ignited coal on the fire-grater, and by suddenly absorbing from such sources other and the fire-grate; and by suddenly absorbing from such sourclarge quantities of caloric, being as instantaneously flashed in es other and

should also be borne in mind that the additional quantities of steam thus generated exert no force whatever inside the boiler, or comparatively none, and that the whole amount of the pressure is directed against the exterior of the boiler, increasing largely the projectile power.

Suppose, therefore, that the amount of pressure loss by the escape of the water into a larger space, at the time of the fracture, to be reinstated by the additional quantities of steam thus suddenly evolved (and we think it quite possible), it will be perceived that, in such case, the pressure exerted against the under side of the boiler by the newly-evolved steam is 87½ tons; that the resistance to that force is derived only from the weight of the boiler, and the water within it, together amounting, probably, to 17½ tons, and that the projectile force is equal to 70 tons. Hence the boiler must be blown from its seating, and projected through the air, and the brickwork be scattered in every direction. But even if we admit the force, as exerted by the pressure, to be equal only to one-half of that amount, or 35 tons, still being derived from an elastic agent, it is amply sufficient to produce all those devastating effects which, under such circumstances, we are accustomed to see recorded.

The direction that an exploded boiler may take in its flight most pro-

The direction that an exploded boiler may take in its flight most probably is influenced by the position of the fracture. This will be better understood by reference to the subjoined diagram —



In the preceding section let figure 3 represent a waggon-shaped steamengine boiler, set in the usual manner in brickwork. By the arrangeas thus exhibited, the flame, and heat, and gaseous products of combustion pass from the fire-grate over the bridge along the bricked flues beneath the boiler, and at the back of it: thence through the metallic flue of the boiler into the bricked flue at the front of the boiler, where the current divides itself, and passes through two brick flues, arranged one on each side of the boiler, into the ordinary damper-flue, whence it passes into the chimney. By examining the diagram, it will be at once obvious that, as the flame and heat flow continuously over the bridge, and through the flues beneath, and at the end of the boiler, the brickwork of those flues must imbibe so much caloric as to become red-hot. Further, that should any fracture or rent of the boiler, take place, so as to allow of a portion of the heated water to flow thence on that red-hot brickwork, enormous volumes of steam must be instantaneously generated—capable, by that agency alone, of producing all those disastrous effects to which we have referred. In a waggon-shaped boiler, however, the effects, under the same pressure, will be greater than with the Smeaton, or egg-shaped boiler, by consequence of the greater area exposed to the pressure. area exposed to the pressure

than with the Smeaton, or egg-shaped boiler, by consequence of the greater area exposed to the pressure.

It is well known, naturally, that all power is transmitted in a right line, and that the operation of compound forces is necessary to produce any deviation from it. If, therefore, the steam thus suddenly evolved from the heated water, by its coming into contact with the red-hot brickwork of the flue, could, at the same instant of time, be equally diffused under every portion of the bottom only of the boiler, and act on every part of it with equal intensity of pressure, there is not a question that the boiler would be projected vertically into the air. But such range of flight is barely likely to take place. Even if the steam could be equally diffused under every portion of the bottom part of the boiler at the same time, the fire-grate, owing to the interstices between the fire-bars, does not present that firm base for the steam to act against as is presented by the solid mass of brickwork behind the bridge; therefore, the great probability is, should any such fracture take place, either over the bridge or on the right hand side of it, or over the flue, to however small an extent, the boiler will be projected through the air in an oblique direction; and the deviation from the vertical line will be greater or less, accordingly as the fracture takes place nearer to, or farther from, the bridge, towards the chimney. The greater accession of heat also that may be imparted to the water by such brickwork, and the action of the pressure on the end of the boiler at the flue will tend still further to the oblique direction we have stated.

The observations we have thus made are of great practical importance. Hitherto, from the awful effects of such explosions, the minds of practical and thinking men have been devoted more to a search after some unexplained cause for increased production of pressure within the boiler, rather than to an elucidation of the simple one we have developed, and by which.

and thinking men have been devoted more to a search after some unexplained cause for increased production of pressure within the boiler, rather than to an elucidation of the simple one we have developed, and by which, in our opinion, most of those catastrophes are produced. High-pressure steam is not indispensably necessary to an explosion. Low-pressure steam is amply commensurate to the end. We have shown this by our remarks on the explosions that took place of the two Smeaton or egg-shaped boilers; and we can confirm or strengthen the statements by adding, that we were present shortly after, and witnessed the effects that had been produced by an explosion of a waggon-shaped boiler. It had been worked, customarily, at from 7 to 9 fbs. pressure on the square inch; and there was reason to believe that that pressure had not been exceeded at that time. It was in connection with two other boilers—neither of which had exploded. In short, it is to neglect, superinduced by a false notion of security, that such explosions may, in general, be attributed. Engine proprietors and engine-tenters, not having been aware of the danger, have, until now, been indifferent, comparatively, as to any defective state of a low-pressure boiler. How frequently do we see such, while working, leaking badly; but not sufficiently to produce an explosion? How often do we hear that the engine-tenter, even with the sanction of his employer, has had recourse to some paltry patchwork of a contrivance, to prevent a defective boiler from extinguishing the fire? Had the danger we have pointed out been known, would such things have been allowed to exist? Both the engine proprietor and engine tenter would, for their own interests, have been averse to it. It cannot, therefore, be too well known that steam-engine boilers are, by neglect, quite as liable to be exploded when worked at low rates of pressure as at high; nor can the reasons we have thus assigned as the cause of such explosions be too widely disseminated.—The Civil Engineer and Architect's J plained cause for increased production of pressure within the boiler, rather

SWITZERLAND .- A letter states, that " Mr. Stephenson, the English engineer certain lines of railway; but he has just notified that he cannot accept the in-vitation before the end of the month of August; and, in consequence of this, the department of public works has engaged Mr. Gooch, another English en-gineer, to go to Switzerland in June."

New Railway Carriage.—We observe that a new railway carriage—the construction of which, both as regards elegance of appearance and convenience of accommodation, shows a vast improvement compared with those now generally in use—has been introduced on the Ayrshire line. The two centre compartments are for second-class passengers, and either extremity has been fitted up as a first-class compe. In these no pains seemingly have been spared to promote the comfort of the passengers, and lessen the tedium of their journey, while the internal arrangements are adapted to the enjoyment, on the part of the traveller, of a most agreeable lounge; the end corners are cut away, and filled with plate glass, through which, and other spacious windows, every facility is afforded for viewing on all sides the country through which he may be journeying. We believe that, during the few weeks they have been tried, they have been found to answer admirably. The carriages, were, we understand, built at the company's workshops at the Glasgow terminus, where a large number of the same style, intended for the through line to Dumfries, are in process of construction.—North British Mail.

Original Correspondence.

MINE INSPECTION-LIFE INSURANCE.

Example Inspection—Life Insurance.

Sin,—As it appears to be a fact, however hard to believe, that there are persons having some knowledge of mining operations who think they may be conducted more safely and effectually under the care of individuals selected by the Government than if chosen, as at present, by those who are practically versed, and have a stake, in those operations, would it not be very advantageous if the reasons of this opinion were stated?—and where can they be more appropriately advanced than in the columns of your Journal devoted to such intelligence? Those who feel an unbesitating confidence in the benefits of an official mine inspection must surely have arranged in their thoughts some plan as to the manner in which it is to be effected, the duties which the inspectors will be instructed to fulfil, their number, the number of collieries each inspector will have to superintend, the class of persons who are to be selected, the mode of their selection, and all those particulars which, in one shape or other, must form the very substance of an enactment. As yet, I have been unable to meet with these particulars. From the report of Sir Henry De la Beche, some years since, down to your latest correspondent, all the advocates of inspection appear to have one united agreement in opinion—that its establishment will be a mess at first, and will have by degrees to work itself to perfection. I fear, in this day, we are rather too fond of such experiments; "he who teaches himself wisdom has a fool for his master" is an old Iralian proverb. The warning is, perhaps, not much thought of—rather, I think, there is a prevailing taste for this mode of instruction; yet I am not certain the proverb is entirely worthless. I cannot call to mind many instances of undertakings which have bundered themselves into success, and stumbled to a right end from a wrong beginning. So long as the advantages of sundar activas are at all doubtful, it cannot be altogether condemonal in such an important affair as handing over our

Whilst the problem of this accident is being solved, let us consider how a system of life insurance would have affected its results. Each man having to pay a small monthly deduction from his wages to entitle him to the advantages offered, the agent of the insurance company would stipulate that a gross act of negligent disobedience in any individual would amount to a forfeiture of his policy. The rules of the mine, to which such obedience must absolutely be required, would be arranged with the mutual sanction of the colliery owner and the insurance agent. The monthly deduction of a part of his earnings, small though it be, would be sufficient to fix the continual attention of the workman on his responsibilities and risks; a jealous mutual inspection would be constantly in play. The unfortunate viewer in this case, who fell a victim, in the discharge of his duty, to the disobedience of others, would leave to his family the amount of his policy in full; the policy of the man who unserewed his lamp would be justly forfeited; the policies of the minor offenders who left their post would be at the discretion of the company to make such payments, if any, as particular circumstances might point out; and the single man, who set an example of obedience, and saved his life, might have an equitable reward in encouragement of good conduct. Is not this quite as good a beginning as a "cramped and limited inspection?" A great deal has been said, both in and out of Parliament, in favour of an inspection in this country, because it is instituted abroad. This seems as good an argument as to urge that, because there is a president in Paris, we ought to have a president in London in place of a queen. We should not like to pass through the step-don in place of a queen. We should not like to pass through the step-don in place of a queen. We should not like to pass through the step-don in place of a queen. We should not like to pass through the step-don in place of a queen. We should not like to pass through the step-don in place of a

CRYSTALLISATION OF IRON.

CRYSTALLISATION OF IRON.

Sir,—It appears by your report of the proceedings of the Institute of Mechanical Engineers, at Birmingham, that Mr. Stephenson has been looking closely into the fibre of iron. His results are in strict accordance with what I have advanced, that the appearance of the fibrous, or crystalline, character depends much more on the mode of affection which the iron has towards fracture than on any inherent difference, or change, of structure. Bar-iron must be considered to possess, at the same time, two distinct arrangements—the natural and the artificial. The artificial disposition in strike and lamina, induced by mechanical means, co-exists with the natural disposition in crystals, which is the inherent property of the metal. Both must, therefore, be present in every elongated har of iron; and, according to circumstance, one or other predominates in the appearance of the fracture. I think Mr. McConnell yields too much in admiting the term fibrous, as applied to iron, to be a mismomer. The analogy is strictly correct, which applies the term to any substance where the particles are arranged in longitudinal masses, with so much tenacity that they elongate under a disruptive force, and then separate at their weakest is strictly correct, which applies the term to any subsection is strictly correct, which applies the term to any subsection it is a rarranged in longitudinal masses, with so much tenacity that they elongate under a disruptive force, and then separate at their weakest points. In the ordinary mode of breaking iron to test its fibre, the centre of fracture is a fulcrum, on either side of which the elongating strain takes place, which finally results in fracture at the thinnest and weakest portions of the bundles which compose the whole substance. I have never seen a bar of iron torn asunder by a straightend pull, which would be a purer test than an operation in which tension on the upper surface is complianted with compression on the lower, and the fracture is effected by substance to compression is purer test than an operation in which tension on the upper surface is combined with compression on the lower, and the fracture is effected by a succession of alternate leverages, of which resistance to compression is the support. Experiments upon the fracture of fibrous and crystalline iron, under such a test, by those who have opportunities at command, would furnish very instructive points of comparison. It would probably exhibit by no means such a fibrous appearance as where the bar is broken by bending, under which the lamina, or bundles, of the bar are strained into arcs, having such very different proportions of the whole curve, and such different degrees of tension, that the direct tendency is to delaminate, and, therefore, exhibit the appearance of fibre. We know that, by a sharp effort, a stick may be broken, which, by a slower process of bending, so as to separate the filaments, it will be impossible to break. The breaking

qu ee bt

of a piece of soft iron, as a horse nail, by bending to and fro, is so precisely similar to the same infliction on a piece of fibrous wood, that I cannot see the slightest objection applies to the term fibrous iron. All that is required to induce the appearance of this character is sufficient softness, or pliability, in the metal. When deprived of this, by whatever means, fracture takes effect directly through the substance across the crystals, which we cannot doubt essentially exist in all iron, however they may be disguised by the effect of mechanical processes. If vibration has the power of destroying the tenacity of iron, it must be through the existence of this compound texture. Natural vegetable fibre has not such a double composition. We have not the slightest ground for supposing the filaments of flax are crystallised; but we may be sure that, whatever nonnatural fibre we may superinduce upon iron, it still comprises the natural crystallisation. The interlacing of the planes and points of these crystals, form lines of resistance to the course of an interior vibration, which the impeded wave struggles to annihilate—tending thereby to weaken the cohesive contact. The cases which have been observed of the apparent change, are those in which the impulse of vibration has been in the direction which would most tend thus to separate the crystals in the line of fracture. It is most interesting to inquire by what means the tenacity of iron can be impaired; but as to its practical effects, if it can be established that vibration has such a tendency, it is immaterial whether the structure developed, by the action. Mr. Stephenson must be most naturally and properly jealous of any hasty or insufficient assumptions against the stability of the magnificent novelty he has created; for if cither mode of change can be proved as a certain effect of vibration, the days of the Britannia Bridge are numbered, and it will be time, in 10 or 15 years hence, to be cutting plates out of the sides to test how satisfactorily the cha

IRON FOR RAILWAY PURPOSES.

IRON FOR RAILWAY PURPOSES.

Sir,—The "un-Civil Engineer," whose letter upon this subject appeared in your impression of the 4th inst., and to which, in consequence of being "a paid railway official," I have not, till now, been enabled to reply, has placed himself fairly before the public, and will be judged, according to his merits, at their tribunal; therefore, I am relieved of the necessity of "presenting myself as the only hining oracle capable of deciding" what is his calibre, or how far he has, by the letter referred to, shown his acquaintance with the subject upon which he writes, and power to reason dispassionately thereon; and have only to remark upon the very small portion of his letter that has, in reality, any practical bearing upon the subject. To the question of "what are inventors to do with their inventions?" I reply in the words of the gentleman by whom it is asked, and answer.

"Presenting myself as the ong some order capacity, "man, and is called and the subject oppor which he writes, and power to reason dispasance with the subject oppor which were the subject." To the question of "shot are inventors to do with their inventions?" I reply in the words of the gentleman by whom it is asked, and answer, "Press them upon public attention in every legitimate way, until, by public voice, they are either approved or condomatel? but, in so doing, be careful to avoid everything unbecoming gentlemen, or men of scientific attainments. And what, in return, permit me to ask "Civil Engineer." does he consider "the legitimate mode of pressing upon the attention of the public" such an invention as that now under discussion? I is it hat of sending a few samples to one particular railway; and at the expiration of a period, in the subject of the property in the subject of the subject o

the rail, the more liable it is to suffer.

would not employ the same complimentary language towards "Civil

Engineer" that he has thought proper to indulge in towards myself, and designate him a "wiseacre;" but that he is no Solon his own letter furnishes the most incontestible proof, or he would know better than to treat as a discovery of mine, only now puffed off, that which the practice and experience of the last 10 or 12 years of engineers of at least equal eminence with himself has converted into an established fact, for the use of any practical man, possessing intelligence enough to employ it.

May 21.

ON THE PURIFICATION OF GAS.

SIR,—Your paper of the 18th inst. contains a letter from Mr. Richard Laming, in which he claims as his right the use of "sulphate of lime" for the purification of gas. Allow me, Sir, here publicly to protest with all the strength of my right against this pretension. I appeal to the distinct wording of her Majesty's patent, granted to me on the 1st of Aug., 1849, in which it is set forth, clearly and precisely, that "sulphate of lime" is the basis of any purifying powder. I use in its manufacture all sulphates of lime, either artificial or natural, without reference to their origin, or from whatever process they may have been obtained. What can be more positive? In my case, I am well determined to defend my rights wherever or whenever attacked, because all the world knows perfectly that, in this land of industry and loyalty, it is well understood how much should be appreciated the sacred rights of those who have known how, by their studies, to enrich science and the public domain. My intention is to address a circular on this sabject to all directors, secretaries, engineers, &c., of gas companies.—De Cavaillon, Patentee: Rue Taitbout, Paris, May 24. ON THE PURIFICATION OF GAS.

companies.—De Cavaillon, Patentee: Rue Taitbout, Paris, May 24.

CONSTRUCTION OF RAILWAYS OVER STEEP GRADIENTS, AND FOR MINES.

Sir.,—Will you permit me, through the medium of your columns, which are so extensively circulated among those who are connected with the mining interest, to make a few remarks, generalising on a suggestion of mine, which I published in a letter to the Mechanics' Magazine about two years ago? In the letter I allude to I proposed that railways and common roads might be made over country where, according to our present views of road-making, the gradients would be too steep to admit the possibility of drawing any kind of vehicle upon them, by constructing the road in reaches at such a fair rate of inclination as would adapt it for the purposes intended. For instance, in the case of a railway, the maximum rate of inclination might be limited to 1 in 100, and for common roads to 1 in 20, and then raising the carriages from one reach to another, or letting them down as required by vertical lifts, or platforms, which would be moved up or down at pleasure by an hydraulic press. In fact, the road would be constructed in a similar manner to a canal, in which the lifts would be substituted for the locks, with, however, this great superiority, that the reaches would not necessarily be level throughout their entire length, as in canals, but merely at their ends, near the lifts.

Now, I think, as indeed I mentioned in my letter, that this plan might be very advantageously adopted in mines, as lines of way might be laid on different levels, which could be connected with one another, and likewise (by means of a series of reaches and lifts, made in small headings, driven in the earth for the purpose) form a communication with some railway in the neighbourhood, and thus the products of the mines might be placed at once in waggons, or on trucks, in the very depths of the earth, and conveyed direct by rail to the place of their destination. It seems to me that such a system, properly arranged, and introduc

voyed direct by rail to the place of their destination. It seems to me that such a system, properly arranged, and introduced into the mining districts, would be productive of great economy of useless expenditure, and would be found much more convenient than the present system. I trust that these ideas may be as useful as I believe they are novel, and venture to present them for the consideration of your numerous readers.

Royal Hibernian Hotel, Dublin, May 20. W. H. VILLIERS SANKEY.

Waterford and Kilknenny Railway—The Nore Bridge.—Much interest has been excited among scientific men by the opening for traffic of the largest viaduct upon the "lattice" principle yet effected in these kingdoms (noticed in the Mining Journal of last and previous week), and intended to carry the Waterford and Kilkenny Railway over the river Nore, near Thomastown, in Ireland. This viaduct has been designed by and erected from the drawings and specifications of Capt. W. Moorsom, C.E., who has constructed seven smaller structures on the same plan during the last 10 years, so that the principle may be said to have stood the test of experience. The viaduct in question is 420 feet in length and 84 feet in height, and consists of massive stone abutments supporting a single arch; or, more strictly speaking, a flat lattice beam of 215 feet in length, with a clear span between the abutments of 200 feet, the lattices being framed in timber and strengthened by cross braces of the same material, and the whole secured with iron fastenings. The depth of each lattice rib is 20 feet, and the width for the railway is 26 feet. On the 30th April last, upon removing the scaffold upon which the arch had been built, the arch sank 34 inches to its bearings. During the following 10 days numerous trials were made by bringing locomotive engines—sometimes with, and sometimes without trains—over the viaduct, and also allowing the trains to remain at rest upon the arch. The final experiments made by the Government inspector, showed that trains of about 146 tons, made up of two engines, and as many loaded waggons as could stand upon the viaduct from end to end, which were passed over at various speeds, and left for a time to rest on the arch, caused a deflection of 2½ inches, which, upon removal of the trains, rose 1½ inch, subsequent to which trial no perceptible deflection has been experienced. The economy of this description of flat arch is remarkable, the contract made for its rection being at the rate of 15t, per foot, or 3300f. for the WATERFORD AND KILKNENNY RAILWAY-THE NORE BRIDGE.-Much in

ness and solidity of the work, have been the admiration of all who witnessed the trials above noticed, and will, no doubt, prove an attraction to visitors during the approaching sammer season.

SAPETY OF RAILWAY TRAYELLING.—Dr. Reid has forwarded the following suggestions for the prevention of railway accidents to the Railway Commissioners:—"I. As to collisions. The momentum the engine, tender, and carriages have acquired is great; but there is no reason, when two opposite trains meet, that they should be all dragged and hurried to destruction; for as the carriage train is connected with the tender and engine, that connection can at once be severed by the coupling acting on a spring, which the guard can in an instant detach, separating in an instant the connection between the engine and the train, so that the latter, the moment the danger is descried, can then only move with the momentum it has already received; while the drags, and other appliances, will be brought more easily into play, and, in many instances (for we do not conceive it possible in all), the safety of the train will be secured, the engine only being the sufferer. This plan seems to me so simple, that the wonder is that it has not been already suggested and applied.—2. As to the train running off the line along with the engine. Here the same principle, modified in some respects, is to be applied. But, then, how is the guard, especially at night, or in a fog, to discern the false oblique movement? and how are the carriages to be prevented following? The following simple expedient, which consists in making the spring self-acting, will, I respectfully submit, be adequate to the object in view. The connection, or coupling, between the engine and the train of carriages is made in like manner, secured by a spring. The connecting-bar of ron works in a groove, and being an inflexible line, so long as the engine moves straight (that is to say, on the rail), making all due allowance for the curves of the road, both the train and engine hold together. As,

model would be 300L, and one month's time."

Monster Hallstones.—The following extract from a letter is published by the Bombay Telegraph:—"I just write these few lines to inform you that, on Sunday last, between the hours of 4 and 5 o'clock, a tremendous fall of hail occurred at a village called Condwal, about six miles from Sattara. The hail-stones are described as being as large as cocon-nuts. Several houses fell, cattle were slain, and several people were killed by the houses falling in. Many large fish were killed in the river also. The natives declare they have never seen such hall in their lives. I am within the mark when I say they were as large as cocoa-nuts; they have been described as much larger. In camp, we had merely a tremendous dust-storm; but, for several hours, the sides of the hill were white with the hall, like snow in appearance."

The American Miners' Journal of the 5th instant says—"Two furnaces have been erected recently in Cornwall, Lebanon County; but they will not be 'blown in,' because it is feared, by some of the loco-foces, it will have a bad effect on public opinion in England!"

FOREIGN INTELLIGENCE.

CALIFORNIA.—Advices from San Francisco to the lat April have been reserved.—Three ships arrived on the 7th inst. at New York from Chagres, with me month's later news, the particulars of which are comprised in the following:

AGGREGATE COLD, SPECIE, AND PASSENGES.

Bisengers.

Gold and Specie.

Empire City.

Stormers.

Pissengers.

Gold and Specie.

Empire City.

Stormers.

Fiscangers.

Gold and Specie.

Fiscangers.

**Gold and Specie.*

**Fisca

from the first commercial houses.

One piece of gold weighing 93 lbs. had been found. The Stockton Times says—"The wonder of the inhabitants of Stockton was, some weeks ago, much excited by the news that a lump of gold, weighing 93 lbs., had been dug up at Carson's Creek. We, however, heard nothing more about the matter until yesterday, when a gentleman presented us with a piece broken from the mass; as a specimen of the whole, we should judge that it contained barely a 12th part, by weight, of the precious metal, disseminated through quartz. It is much to be regretted that the parties who found the rock have broken it into fragments, as, from the size and beauty of the quartz, it would, if it had remained entire, been of greater value than the intrinsic worth of the gold."

The Sonobian Lump of Gold.—The same paper also says—"We have

entire, been of greater value than the intrinsic worth of the gold."

The Sonorian Lump of Gold.—The same paper also says—"We have seen the eighth wonder of the world! We have held in our hands the Sonorian lump of gold, weighing 22 be. 6 ozs. In January, three Sonorian Mexicans were following their mining pursuits in the arroyo of Sonora, and discovered this 'pile.' The prize afterwards fell into the hands of Linoberg and Co., of Sonora, who sold it again for a considerable amount to Messrs. Alonzo Green and Joshua Holding, for a very high premium. To our own knowledge these gentlemen have again been offered \$2000 for it above its intrinsic value. It is estimated that there are about 4 ibs. of common quartz mixed up with the precious metal, as is generally the case in large specimens. We believe it is the intention of Messrs. Green and Holding to send it to the States. We have been informed on good authority that these gentlemen, besides this armfull, brought down with them, on their trip from Sonora, not less than 240 lbs. weight of gold dust for exportation."

Another Lump of Gold!—Major Burney reports that a lump of gold was

ANOTHER LUMP OF GOLD!—Major Burney reports that a lump of gold was found in one of the gulches near Fremont's camp, weighing over one hundred nances (8 lbs. 4 ozs.).

NEW DIGGINGS.—A grene minur came rushing into our office (his countenance indicating that he was tickled all over, inside and out) with a quart of sand, which he had "scooped up right out on the American Fork." He said the dirt was full of scales, and, upon examination, it proved to be so, the only trouble being the fact that the scales were those of mica instead of gold! The young man straightened his coat tail, and we think he must be in the vicinity of Trinity River by this time.—Placer Times.

The mostly statement of part statistics, taken from the books of the San

of Trinty River by this time.—Placer Times.

The monthly statement of port statistics, taken from the books of the San Francisco harbour master, shows that from Feb. 28 to March 27 inclusive, there have arrived, in 74 American vessels (19,228 tons shipping) 1532 male and 55 female passengers. Foreign vessels, 26 (5814 tonnage), 2208 male and 160 female passengers. Total: vessels, 100; tonnage, 25,042; male passengers, 915.

female passengers. Foreign vessels, 26 (3814 tonnage), 2208 mate and ano female passengers Total: vessels, 100; tonnage, 25,042; male passengers, 2028; female passengers, 215.

Coal.—We understand that positive indications (which rarely fail of an actual discovery) of a rich mine of coal have been found not far from San Francisco, which promises an ample supply of that most important material of fuel, both for domestic purposes and those especially of steam navigation. Arrangements are in progress to open the mine, and the result, we have no doubt, will be lucrative to the parties concerned in the undertaking.—Placer News.

ments are in progress to open the mine, and the result, we have no doubt, will be lucrative to the parties concerned in the undertaking.—Placer News.

The Alta California says—"We have just conversed with an intelligent gentleman thoroughly acquainted with the mining regions, who has returned recently from a tour through the various settlements known as Spanish Bar, Georgetown, Hangtown (now Placerville), Kelsey's Diggings, Weberville, Aubura, and Greenwood Valley. He found the roads very bad, and travelled on horseback with much difficulty. He gives the most favourable accounts of the situation of affairs in the region spoken of. The population has increased in a surprising manner during the winter, and little settlements have sprung up every three or four miles. The utmost content prevailed among the miners, who were all perfectly satisfied with the result of their winter's labour. The general disposition among them appeared to be to remain in the diggings until the hot weather sets in, and not to come down with their dust until May or June, in order to reap the rich harvest expected at the falling of the waters. This has been the opinion of practical men all along, and applies to all the mining regions. The moment the roads are in good order and communication is rendered easy, the wealth of the mines will pour down and business of all kinds will revive. We have been informed by a gentlemen just from the North Fork, that the bars on that stream were found to be very rich by those who have commenced digging. On the Yuba, those who could procure places unoccupied were doing very well, and our advices generally continue favourable." occupied were doing very well, and our advices generally

New South Wales.—Accounts have reached us from Sydney to the end of January. The railway company had at length been organised, and a manager (Mr. Cowper, M.L.C.) appointed on the salary of 6002. per annum. A call upon the shareholders had been made, which, notwithstanding its novelty, was responded to with great readiness. Mr. Benjamin Boyd, the eminent merchant, had proceeded to California in the Royal Yacht Squadron schooner Wanderer; in the Sydney journals a long list of vessels is advertised to sail for the El Dorado, from which it would appear the gold fever had in no degree abated. Such was the abundance of the late harvest that wheat was selling at 2s. 6d. to 3s. per bushel. A seam of coal of greater thickness than has been heretofore worked, has been discovered at Newcastle, where the Australian Agricultural Company were sinking a pit about two miles distant from their wharf at Newcastle, and preparations were in active progress for connecting the pit with the castle, and preparations were in active progress for connecting the pit with the wharf by a railway, the materials for which had arrived in the colony by the Artemesia. A further reduction in the price of coal was expected.

Hobart Town journals also announce further coal discoveries

Western Australia.—The Perth and Fremantle journals are to the end of January. The mining prospects of the colony appear to indicate some improved prospect for the settlement, but so many discoveries have turned out mere chimeras, that all intelligence of this nature is received with caution. Something satisfactory, however, is known relative to the Geraldine Silver-lead Mine; a proof of its productiveness, in the form of a ton of lead, had been sent into Perth, a portion of which had been forwarded to South Australia, in the hope of inducing speculators in the sister colony to embark in the undertaking.

ne fine country had been discovered in the neighbourhood of the mine, in the published accounts of the deputy surveyor-general there was an indance of water, as well as wood for sinelting purposes.

From the published accounts of the deputy surveyur-general these abundance of water, as well as wood for smelting purposes.

SOUTH AUSTRALIA.—Advices from Adelaide to the 15th February have been received, by which we find that the City and Port Railway Company were urging on the Legislative Council to pass the Bill without further delay. A gas company has been formed, the shares of which were going off rapidly. A resumption of the quarterly dividends of 200 per cent. on Burra Burra shares was promised on March 31, notwithstanding which circumstance the price of shares had given way. The papers notice the decease of Samuel Stocks, Esq., jun., who, since his arrival in the colony, had filled a leading post in its commercial and mining concerns, and manager of the Burra Burra. The Bank of South Australia appears to have got into some misunderstanding with the middle-class interest, owing to the bank's refusal so cash any cheques under 51, as also by some doubtful dealings, on the part of Mr. Morphett, a director, who threw out bills for the Hero's cargo, because it was likely to forestall that of the Competitor in the Mauritius market. Some excitement had been created, and was still rife, anent the discovery of gold to some considerable extent, and a company had been formed "for washing and streaming for gold within the colony of South Australia," the sphere of the company's operations extending over 1600 acres of land, with about 20 miles of watercourses already purchased.

The following is an extract from a private letter:—"I have just seen a young

over 1600 acres of land, with about 20 miles of watercourses already purchased.

The following is anextract from a private letter:—"I have just seen a young man who had lived some time at Burra Burra. He reports (though not a miner) that they had no proper lode there, but that such had been discovered on Princess Royal and Bon Accord—of the latter a very favourable opinion was entertained by the people at Burra Burra; and as he did not know the motive of my inquiries, I was the more satisfied with the information elicited, The Kapunda and Enterprise Mines are thought the most likely to turn out well, next to Princess Royal and Bon Accord."

COMPANIES PROCEEDING UNDER THE WINDING-UP ACT

PROCESS ON NON-PAYMENT OF CALLS.—In cases where parties fixed with liability under the Joint-Stock Companies' Winding-up Act neglect to pay the calls made to discharge liabilities, a peremptory order is issued by the Master in Chancery, notifying to the persons so refusing to pay their liability to be arrested under a writ of attachment issued by the Court of Chancery, or by the Sergeant-at-Arms attending the Court, and also to be liable to have their estate sequestrated for the purpose of compelling payment. The official manager, however, has power, with the consent of the Master, to enter into a compromise in certain cases, and to receive payment of the calls by instalment; but great difficulty is experienced in ascertaining truly the pecuniary position of the parties, to justify this departure from the provisions of the Winding-up Act.

BANWEN IRON COMPANY.—Master Kindersley will proceed, on Wednesday next, to settle the list of contributories of this company; after the list has been settled, no party affected will be allowed to dispute the same without having first obtained leave of the High Court of Chancery.

GODOLPHIN MINING COMPANY.—On Thursday, at a meeting for the pu se, Master Sir George Rose made a call of 12L per share on the contributori this undertaking.

ANTI-DRY ROT COMPANY.—Master Dowdeswell has appointed Mr. W. Good chap to wind up the affairs of this company, which was established with premises at the West India Ducks, at Gloucester and other towns, for preserving timber from decay. It is understood that the realisable assets, amount to be tween 4900L and 5000L

KINGSLAND LITERARY INSTITUTION.—The affairs of this institution are to e wound up, in compliance with a petition from the shareholders.

PARCELS POST COMPANY.—Mr. Goodchap has been appointed to investigate and wind-up this company's affairs.

SHEFFIELD AND RETFORD BANKING COMPANY.—A call to defray the liabities has been made on the shareholders to the extent of 11% per share, any urplus balance to be repaid them.

THE VALE OF NEATH AND SOUTH WALES BREWERY COMPANY.— Master rougham has just made a call of 25L on the shareholders, so far as the list has seen settled, and excepting as to those whose liability has been settled, with a cited one lifest one lifest in the contract of the

Petitions have been presented for the settlement and winding-up of the Oundle Brewery Company, Northamptonshire.

CHELTENHAM AND OXFORD.—Yesterday Master Dowdeswell appointed Mr. W. Goodchap to investigate this company's affairs, the petitioners stating that there are liabilities to be met, and assets in hand that ought to be distributed among the shareholders by seven gentlemen who formed the managing committee, but who have not thought fit to reply to the applications that have been made to them, calling for a statement of receipts and payments.

PETERBOROU GH, WISBECH, LYNN, AND BOSTON.—Yesterday Master enior appointed Mr. Hutton to wind up the affairs of this concern, which was becommand three seaport towns, and link the Atlantic and German Oceans." Here were upwards of 100 provisional committeemen, but out of some 20,000 lares allotted, only 360 were actually taken up.

BRIGHTON, LEWES, AND TUNBRIDGE-WELLS.—On Wednesday Master Sir W. Horne, having settled the list of allottees, amounting in all to 700, and in whose behalf there is to be an appeal, proceeded with the other class of contributories, who stand in the position of having signed the deed, and who in consequence were fixed as liable.

consequence were fixed as liable.

DIRECT EXECTER, PLYMOUTH, AND DEVONPORT.—On Monday a meeting of allottees of shares in this company (now being wound up under the provisions of the Joint-Stock Companies' Act) was held at the offices of Messrs. Wright and Bonner, when steps were taken for appealing against the decision of Master Sir W. Horne, who has decided on the liability of 600 allottees, who merely received shares on application. The Master has also fixed as liable between 50 and 60 of the provisional committee, on the ground of their having lent their names and attended meetings in promotion of the scheme. From the evidence given by the secretary and solicitors before the Master, it appears that provisional committeemen were appointed by wholesale in London, Plymouth, and elsewhere; that the engineer required 20001 down before he would proceed, and that it was raised by credit on the Exeter Bank; and, although certain members of the London committee said it would be absurd to make any allotment, 36,400 shares were allotted.

FALMOUTH AND HELSTON RAILWAY.—Master Sir George Rose has appointed.

FALMOUTH AND HELSTON RAILWAY.—Master Sir George Rose has appointed Mr. Spiller to investigate and wind up this company's affairs, in his capacity of official manager.

London And Manchester direct Railway.—There is understood to be a sum of 21,0592, to be accounted for, as in their hands, by the managing committee of this scheme, now being wound up by Master Senior.

LONDON, NEWBERRY, AND BATH COMPANY.—Petitions have been p the Court of Chancery, in order that this company may be wound MADRID AND VALENCIA.—An application is to be made to the Court of hancery to compel Mr. Chadwick's appearance before the Master on this com-

pany's affairs.

INSURANCE COMPANIES.—Petitions have been presented for the settlement of the affairs of the Sea Fire and Life Assurance Company, and of the General Commission, Ship, Loan, and Insurance Company. The insurance companies at present in process of being wound up are the London and Westminster Life Assurance, the York and London Assurance, and the Tontine Life Assurance

York and London Assurance Company.—On Wednesday, Master Blunt proceeded with the settlement of the list of shareholders in this company, amounting to upwards of 200, and in conducting the affairs of which a called-up capital of some 50,000l. has been expended.

THE TONTINE LIFE ASSURANCE COMPANY .- On Friday (yesterday THE TONTINE LIFE ASSURANCE CONTROL OF THE MASTER, SIT WIlliam me. The report of investigation from Mr. Croysdill, the official manager, stated that Horne. The report of investigation from Mr. Croyadill, the official manager, stated that the company was started with a proposed capital of 100,0001. on 5000 shares, of 201. each. It was agreed under the Deed of Settlement that the original direction should retain office for the first five years; that 5 per cent. on all the shares of which the company might consist within 10 years, should be apportioned to its projector, and 15 per cent. thereof to the directors and treasurer, with liberty to any of them to accept or reject the same; and, if the latter to be sold, the purchaser paying all the calls. The premises were in Pall Mall; and, between 1846 and 1849, three secretaries were appointed. To promote the prosperity of the undertaking, and inspire confidence in the public, a people's branch, for granting loans and annuities to the industrious classes, was opened in New Oxford-street; but the experiment involved a loss of \$671. Many attempts were made, but unsuccessfully, to establish local boards in the country. The deposit of 20s, per share was not faily paid-up; and of the 2000 defaulters, 300 were among the directors. Ultimately, the business was abandoned, and transferred to another company; but no meeting of the subscribers was called to dissolve the undertaking. From the statement of accounts, the total payments appear to have been \$5711.; and the total expenses and losses, 74334. The premises in Pall Mall must remain in the company's hands till Christness. The official manager concludes his report by stating that in all the transactions of the concern there appeared to be nothing but discouragements and failures. Although 12,990 shares were subscribed for or allotted, 7660 were taken by the directors, and 3500 by the projectors, leaving 1790 shares for the public. His Honour, the Master, was about to proceed with the list of shareholders, when objections were raised to the validity of the Deed of Settlement, which, according to the report of the official manager, was not originally stamped, the names o

THE CORK AND PASSAGE RAILWAY.—This line was examined by Captain Wynne, R.E., inspector of railways, on Thursday, and we understand he has expressed his fall approbation of the works. The gallant captain and Sir J. M'Neill, assisted by the resident engineer, Mr. Bell, and Mr. Le Fanu, and the contractor, Mr. Moore, tested the stability of the various bridges, particularly that over the Douglas Channel.

ST. ANDREW'S AND WOODSTOCK (CANADA).—The tenders were opened on the 14th inst. for the first 26 miles of railway at St. Andrew's, when it was found they were too high, \$12,000 a mile being the terms: they were consequently rejected. A subsequent agreement was, however, made with some of the parties tendering for completing the first 15 miles, which is considered the most difficult and expensive portion of the line. Further negociations are to be made relative to the remainder of the 26 miles, which, it is expected, will be done at a lower rate. We learn also that a locomotive is expected, will be summer from England.—Quebee Gazette, May 1.

THE ELECTRIC TELEGRAPH COMPANY v. BRETT AND LITTLE.—This case was resumed on Thursday; counsel have been heard on both sides, and the arguments terminated last night; but, as judgment is reserved, we think it better for the present to defer particulars.

the arguments terminated last night; out, as judgment is reserved, we think it better for the present to defer particulars.

ELECTRIC TELEGRAPH ACROSS THE ATLANTIC.—The New York papers give full particulars of Mr. John Wilkes's plan for forming a line of electric telegraph between North America and Europe—for carrying out which a company is stated to be forming in that city. He proposes to lay down at the bottom of the sea ä wire of solid iron, wall insulated, from the eastern coast of Newfoundland to the western coast of Ireland. On the good anchoring ground, which lies 500 miles distant from the first of these countries, he will establish a repeating station, by which the length of the wire will be reduced to 1600 English miles. However deep may be the Atlanic, he proposes to conduct his wire along its bottom. According to all appearances, he says, the depth nowhere exceeds two miles; and he has reason to believe that it is little more than one; but even supposing there may be submarine valleys of 10 or 20 miles in depth, and 50 or 60 in width, he is of opinion that such hollows would present no great obstacle, as the wire might be made to pass over them by means of supports, fixed [we are not told how] at intervals of two miles or less; so that the wire should be kept always 200 fathons below the surface of the sea. Every 100 miles he would anchor a small raft, with mast and flag, communicating with the wire, that the latter may be taken up when requiring to be repaired or renewed; but his opinion is, that there is no possibility of a wire, laid at such a depth, being injured. To lay down this telegraphic line, two ships, working by a very simple process of machinery, will, he says, suffice. The work will be done in two years, and will cost about \$500,000.

HERLEY'S MAGNETO-ELECTRIC TELEGRAPH.—A striking and successful excessioned the search of the search o

ships, working by a very simple process of machinery, will, he says, suffice. The work will be done in two years, and will cost about \$500,000.

Henley's Magneto-Electric Telegraph.—A striking and successful experiment has just been made under the direction of the Franch Government, to test the efficacy of Mr. Henley's magneto-electric telegraph, which is worked without batteries of any kind, and at a fraction of the cost of the Voltaic system. The line of railway assumed for the trial was that from Paris to Valenciennes. At the Paris end the director-in-chief of telegraphs for the French Government, Mons. Foy, supermended; while at Valenciennes were present the Minister of Public Works, Count Shekendorff, the Prussian ambasador, M. Mosay, the chief engineer of the Belgian railways, Baron Devaux, M. Quetelet, and M. Cabray, chief engineer of the Belgian Government; the three latter being members of a commission appointed by the Belgian Government to report on the subject. The distance is 180 miles, being the longest telegraphic line in France. After a most satisfactory series of trials on the single distance, first with the full power, and afterwards with 1-20th of the power, the wires were connected so as to treble the total length of wire, making 540 miles to and from Paris and back—the magnetic message being communicated through the first wire, back by the second, through the third, and back again by the earth. It was not anticipated that the magnet could possibly work through this enormous resistance; but, in fact, it is alleged it is worked as distinctly and rapidly as when only made to traverse the 180 miles with full power. The ordinary telegraph with battery power, used by the French Government was then put in requisition, but not the slightest effect was produced. On the single distance, even, a signal was sometimes not obtained for several minutes, owing, it is said to some fault in the batteries, although the officials were exerting themselves to the utmost. The Government officers and others inspect

Submarine Telegraph Between Dovre and Calais.—This submarine omnunication, which was to have been opened this month, will not now be ompleted and opened until the end of June.

TELEGRAPH BETWEEN ENGLAND AND RUSSIA.—The Emperor of Russia has TELEGRAPH BETWEEN ENGLAND AND RUSSIA.—The Emperor of Russia has decided on placing Petersburg in telegraphic communication with Vienna and Berlin, by means of the electric telegraph which will also pass through Warsaw and Posen. The wires are now being laid down between Berlin and St. Petersburgh, and St. Petersburgh, and St. Petersburgh, and the Black Sea. When the continuous line of wire, an important part of which is now being sunk submarinely between Dover and Calais, is completely in connection with the continent, a person in London may hold almost instant communication with another in Russia.

STIRLING'S PATENTS FOR IMPROVEMENTS IN IRON.—1. TOUGHENED CAST-IRON, which is double the strength of ordinary cast-iron, and only from 10s. to 12s. per ton extra.

2. ANTI-LAMINATING RAILS and TIRES for WHEELS at an extra price of about 7s. 6d. per ton. Also IMPROVEMENTS in the MAKING of WROUGHT-IRON—saving one process to the manufacturer.

Further particulars and terms of license, &c., may be obtained on application to Mr. fee, civil engineer, No. 6, John-street, Adelphi, London; also from the London agents, lessrs, Gardner and MacAndrew, 27, Queen-street, Cheapside; and the Scotch agents, destre. W. and J. H. Johnson, 166, Buchanan-street, Glasgow.

Messra. W. and J. H. Johnson, 166, Buchanan-street, Glasgow.

INSTON IRON WORKS, NEAR SHEFFIELD.—

Messra. R.NGELEY, Wildfift, and Co. Invite the attention of IRON MANUFACTURERS, IRON FOUNDERS, &c., to their DERBYSHIRE PIG-IRON (smelted entirely with coke), which they can with confidence recommend for all purposes where purity of metal, combined with tenacity or strength, is an object. Their No. 3 pig-iron is sufficiently fluid for all descriptions of foundry-work. PiPING made from this quality will admit of almost any amount of hydraulic pressure. As a mixture with tender irons, or for purposes requiring great strongth, their No. 4 is particularly adapted. For PORGE FURPOSES, the loss from waste in cinder, &c., is much below the usual average, and the product a very superior iron.

Messrs. R. W., and Co. also bog to inform RAILWAY CONTRACTORS, ENGINEERS. GAS and WATELI-WORKS COMPANIES, BUILDERS, MILLWRIGHTS, &c., that having purchased an extensive assortiment of models and asparatus from Messrs. Wm, Graham and Co., of Milton Iron-works (who have declined unsiness), and having engaged experienced worksome from that establishment, they are in a position to furnish ALL DESCRIPTIONS OF CASTINGS, suitable for the above branches, and at moderate prices.

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CLASS II.—2s. 6d. to insure £100.

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The numerous casualties in mines, collieries, &c., which, by depriving the workman of his life, plunge his family into misery and want, have given rise to this company, whose rates are so low as to bring the benefits of insurance within the reach of the humblest classes. The directors invite the attention of the owners and lessees of mines and collieries, and others employing large bodies of men, to the principle of insuring them in the mass—in which case an abatement may be made from the above rates.

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NDURATED AND IMPERVIOUS STONE, CHALK, &c.

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and Forcign Patents) the great demand for HUTCHISONISED MATERIALS—hard as
granite, impervious to moisture, vermin, &c.; the cheapest and most durable for all
buildings, hydraulic, paying, monumental and decorative work.—The profits are large.
Apply to HUTCHISON & CO.,
140, Strand, London; or Tunbridge Wells, Kent, and Caen, Normandy, stating name,
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N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster of
Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, &c.

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PATENT IMPROVEMENTS IN CHRONOMETERS

ATENT INIT KOVE MENTS IN CHRONOMELERS

WATCHES AND CLOCKS.

E. J. DENT, 82, Strand; 33, Gockspur-street; 34, Royal Exchange (clock tower area),
watch and clock Maker, BY APPOINTMENT, to the Queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842, Silver lever watches, jewelled in four holes, 6 gs. cach; in gold cases, from
£8 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each.

DENT'S PATENT DIPLIEDOSCOPE,
or Meridian Instrument, is now ready for delivery.—Pamphlete containing a description
and directions for its use 1s, each, but to customers gratis.

MPROVED LIFTING IMPROVED BATCHET JACKS, MANUFACTURED BY W. AND J. GALLOWAY, PATENT RIVET WORKS, MANCHESTER. **Theattentionofpartieswhoemploy** Lifting Jacks. ectfully requested to the sur of those annexed, over the hitherto in use.

BY HER MAJESTY'S ROYAL LETTERS PATENT. IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS

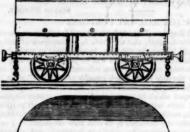
IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS.

ROWLAND BROTHERHOOD'S TILT, for COVERING RAILWAY TRUCKS, WAGGONS, &c.

This invention allows of trucks or waggons being covered or uncovered with surprising case and facility, so that one porter can uncover two trucks in the space of a minute, and two can re-cover both in the same time. It allows of a small portion, or the whole area of the truck, being uncovered, and affords great facility for loading and unloading, and protecting the goods in these operations, as well as in the course of transit. It can be secured by locks and keys, thus rendering merchandise secure from plunder. It is cheap in its construction, can be applied to railway trucks and waggons generally, and is easily attached or detached. It rans smoothly through the air at high speeds, and against head winds.

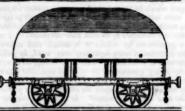
This Tilt has been in use on different parts of the broad guage during the winter, and has been found to work remarkably well in the severest weather. Experienced and practical persons, who have the management of large goods' stations, and have seen these tills in working, and who know the great wear and tear of cloths, tarpauling, &c., and the inconvenience of existing modes for goods' covering, are of opinion that these Tilts will be of great utility in railway service. The patentee is himself prepared either to construct or, on moderate terms, to license parties to construct his patent Tilts.

Applications to be addressed to R. Brotherhood, Railway-Works, Chippenham, Wilts.



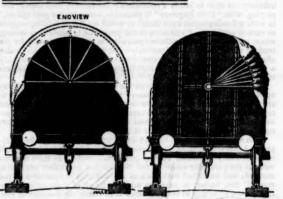
No. 1.

This shows the side elevation of a waggon, with the tilt closed and fastened down



This shows the tilt as applied to a box, waggon or long-sided truck, with longitudinal bearers.

No. 2.



No. 3.

This is an end elevation of the same on a larger scale, showing the pin and fan which supports and carries over the longitudinal bearers to which the cloth is attached, and which when open liescompactly folded along the side of the truck, leaving the whole area of the truck open for receiving or discharging its contents by crane or otherwise.

The tilt is applied to box, or low-sided trucks, with curved longit

No. 4. No. 4.

This is an end elevation of the same, showing the tilt partially closed, so that the whole or any portion of the truck can be open at pleasure, affording means of protection for part of the merchandise, whilst the other being loaded or unloaded, or the truck may be used entirely uncovered, without the tilt in the least interfering least, with curved longitudinal bearers.

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